TESTIMONY OF DR. LINUS PAULING

THE UNIVERSITY
OF MICHIGAN

OCT 19 1960

MAIN
READING ROOM

HEARING

BEFORE THE

SUBCOMMITTEE TO INVESTIGATE THE ADMINISTRATION OF THE INTERNAL SECURITY ACT AND OTHER INTERNAL SECURITY LAWS

OF THE

COMMITTEE ON THE JUDICIARY
UNITED STATES SENATE

EIGHTY-SIXTH CONGRESS

SECOND SESSION

JUNE 21, 1960

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J. G. Sourwine, *Counsel*
Benjamin Mandel, *Director of Research*

DEPOSITED BY THE
UNITED STATES OF AMERICA

TESTIMONY OF DR. LINUS PAULING

TUESDAY, JUNE 21, 1960

U.S. SENATE,
SUBCOMMITTEE TO INVESTIGATE THE ADMINISTRATION
OF THE INTERNAL SECURITY ACT AND OTHER INTERNAL
SECURITY LAWS, OF THE COMMITTEE ON THE JUDICIARY,
Washington, D.C.

The subcommittee met, pursuant to notice, at 10:15 o'clock a.m. in room 1114, New Senate Office Building, Washington, D.C., Senator Thomas J. Dodd presiding.

Present: Senators Dodd, Johnston, Keating, and Cotton.

Also present: J. C. Sourwine, chief counsel; Benjamin Mandel, director of research; and Frank Schroeder, chief investigator.

Senator DODD. The hearing will come to order.

I will say for the record that we met very briefly in executive session and that this open session is an adjourned session, really, of the meeting that was already opened a few minutes ago.

We are in open session at the request of Dr. Linus Pauling, who asked that the hearing be open to the public.

I explained to Dr. Pauling in the executive session that the reason for the executive session is that the rules of the subcommittee require that before a witness is heard in public, he should be heard in what we call an executive or private session.

The reason for that rule is simple. It is an effort to protect witnesses and give the committee an opportunity to ascertain the truth or falsity of information, so the executive session at which Dr. Pauling was asked to appear was as much for protection of the witness as for anything else, indeed more for the witness than for anything else.

The committee is sitting this morning, as always, with its full authority as outlined in its authorizing resolutions, which are set forth in full in the Handbook for Witnesses, copies of which have been given to Mr. Pauling and to his attorney, Mr. Wirin.

Thus, while the particular objective of the session today is to learn what we can from this witness respecting Communist activity in connection with protests against nuclear testing, we shall also seek other information respecting Communist activity if it appears that such information might be available from this witness.

I draw to the attention of the witness and his counsel the fact that propaganda activities are specifically within the jurisdiction of the subcommittee under its authorizing resolution. There has been a very substantial amount of propaganda in connection with protests against nuclear testing, and the committee has established in previous hearings that some of the activity in this regard has been Communist-inspired or Communist-directed.

The committee does not sit to make charges or to prove charges. We are here to ask questions with a view to securing information which will help us in determining whether additional legislation may be needed for the protection of the internal security of the United States and, if so, what form such legislation might take in order to be effective.

Let me add that we are not concerned here with the merits of the controversy over banning nuclear tests. We are interested in uncovering subversive activity, in determining whether there has been Communist participation in propaganda disseminated to the American people, and Communist activity through front organizations.

The scientific aspects of the question of nuclear testing will not be touched upon here this morning.

Now, Dr. Pauling, let me say to you that we are pleased to have you this morning. We regard you as an eminent scientist, a man who has made very great contributions for the betterment of humankind and our interest in you I expressed in what I tried to say here in my statement a few minutes ago. We think perhaps you can help us so that we can better understand what we can do if we need to do anything in order to protect the security of the United States of America, and I hope you will feel, as we want you to feel, and as you should feel, that there is nothing hostile about our presence here, nothing hostile to you at all.

I have personally no ill toward you, and I can assure you that no member of the committee has.

We recognize you, as I said, as a great scholar and scientist—know about your very great interest and fears which we all share to some extent. So I hope you will not take this hearing in any sense as any attempt to torment you or harass you or trouble you.

I think you will remember that I asked you if you would be in town a few days and that I was perfectly willing to fix a time to hold this hearing to accommodate you. I might say I think the reason you were requested to come at this time was that you were in this vicinity and it would save you travel, and difficulty. So, that is the background for this hearing this morning and we will try to make it as brief as we can and not detain you very long.

I do not think it need be very long.

Mr. Sourwine, are you prepared to ask some questions?

Mr. SOURWINE. Yes, Mr. Chairman.

It might be advisable to offer for the record at this time the two telegrams referred to in the executive record, being the telegram of Dr. Pauling requesting an open hearing and the chairman's telegram advising him that it would not be granted, but if he repeated the request in executive session, that it would be; and Dr. Pauling's telegram this morning reciting the desire——

Senator DODD. That may go in.

By the way, Dr. Pauling, the telegram to which you referred in our executive session has been located and it will be put in the record at this point, without objection.

(The three telegrams were marked "Exhibit No. 1," "No. 1–A," and "No. 1–B" and read as follows:)

(EXHIBIT No. 1)

WASHINGTON, D.C., *June 20, 1960.*

J. G. SOURWINE,
Counsel,
Senate Office Building, Washington, D.C.:

The subpena commanding me to appear before your subcommittee to testify about the campaign against nuclear testing did not say that the session would be a closed session. When I appeared this morning as commanded I was surprised to learn for the first time that the session, postponed by you until 8 a.m., tomorrow, is to be an executive hearing closed to the public and the press. I do not like secrecy and I wish to present my testimony in public. I have nothing to say that needs to be kept secret and I neither require nor desire the protection of an executive hearing. Moreover, the rules for procedures of your subcommittee state that all testimony taken in executive session shall be kept secret but permit the subcommittee to release for public information such portions of my testimony as the subcommittee may select; this could lead to manifest injustice to me in that selected portions of my testimony might not fairly present the import of my entire testimony. Also under your rules I am not entitled to a copy of my testimony unless it is given in public session or made part of the record in a public session, and I wish to have a copy of my testimony. For these reasons I respectfully request that the session at which I testify be a public session and not an executive session.

LINUS PAULING.

(EXHIBIT No. 1-A)

U.S. SENATE,
Washington, D.C., June 20, 1960.

Cannot waive rule requiring executive session but if you will repeat in executive session tomorrow 10 a.m. your request for public session and your desire to waive protection of this rule, the committee will go into public session immediately for remainder of your testimony.

THOMAS J. DODD, *Vice Chairman.*

(EXHIBIT No. 1-B)

WASHINGTON, D.C., *June 20, 1960.*

Senator THOMAS J. DODD,
Vice Chairman, Internal Security Subcommittee,
New Senate Office Building, Washington, D.C.:

Referring to your telegram of this date stating that, upon my requesting public session at the executive session tomorrow, my request will be granted, this is to advise you that I intend to make this request for public session immediately upon the convening of the executive session and to waive any protection that might be accorded to me from an executive session.

LINUS PAULING.

Senator KEATING. Mr. Chairman, may I say a word before we start?

Senator DODD. Of course.

Senator KEATING. Mr. Chairman, I think we should also make it clear to Dr. Pauling that this committee, as a committee, is in no way interested in his views with regard to nuclear testing. Whether one agrees or disagrees with the views which Dr. Pauling has expressed, this is not an appropriate forum to discuss the merits or demerits of any controversy which has arisen over this subject, and the witness has a perfect right, as has any other American, to express any views which he may have and sincerely feel on this subject, and whether or not they agree with the views of any of the members of this committee is entirely immaterial.

This is a free country, and everyone has an opportunity to express whatever views he wants to, but this hearing is convened for the sole purposes as outlined by the chairman.

Senator DODD. Thank you, Senator Keating.

Are you ready to proceed now?

Mr. SOURWINE. So that the subcommittee may have the proper background, Dr. Pauling, you are a native of the United States, born in Portland, Oreg., February 28, 1901?

TESTIMONY OF DR. LINUS PAULING

(Previously sworn as a witness in executive session)

Dr. PAULING. That is right. I am Linus Pauling, native born in Portland, Oreg., on February 28, 1901.

Mr. SOURWINE. You attended Oregon State Agricultural College, receiving a B.S. in chemical engineering in 1922; went to work for California Institute of Technology in that year, and have been employed there ever since?

Dr. PAULING. That is right; employed there ever since.

Mr. SOURWINE. You are presently professor of chemistry and chairman of the division of chemistry and chemical engineering, and director of the Gates and Crellin Laboratories of the institute——

Dr. PAULING. No. I have been professor of chemistry for many years, and was director of the Gates and Crellin Laboratories of Chemistry, and chairman of the division of chemistry and chemical engineering for 21 years, but I resigned a couple of years ago from that post and have continued as professor of chemistry.

Mr. SOURWINE. Your first doctorate was from Cal Tech in 1925, Ph. D., and you have something over 14 honorary degrees, including doctorates from Yale, Princeton, the University of Chicago, University of London, Oxford, Cambridge, the University of Paris, the University of Toulouse, and the University of Liege?

Dr. PAULING. That's right.

Mr. SOURWINE. You received the American Chemical Society Award in Pure Chemistry in 1941, the Nichols Medal in 1941, the J. Willard Gibbs Medal, the Theodore William Richards Medal, the Davy Medal by the Royal Society of London, the Lewis Medal and various others, also the Presidential Medal for Merit from President Truman?

Dr. PAULING. That's right.

Mr. SOURWINE. And you received the Naval Ordnance Development Award and Certificate for Exceptional Service to Naval Ordnance Development?

Dr. PAULING. That's right.

Mr. SOURWINE. You are also a holder of the Nobel Peace Prize, awarded for chemistry in 1954?

Dr. PAULING. Well, not the Nobel Peace Prize; the Nobel Prize that I received is not the peace prize, but rather the Nobel Prize for——

Mr. SOURWINE. I am sorry; I misspoke myself.

Dr. PAULING. ——for chemistry.

Mr. SOURWINE. For chemistry, in 1954?

Dr. PAULING. Yes.

Mr. SOURWINE. I show you, sir, a letter addressed to you by the director of research of this committee under date of March 8, 1960. This is a carbon copy, and I ask you if you received this letter.

Dr. PAULING. Yes; I remember receiving this letter.

Mr. SOURWINE. And I show you now, Doctor——

Dr. PAULING. This is the letter asking me if I would send for the files a copy of the list of 9,000 scientists of 43 countries who are alleged to have signed a petition to the governments and people of the world as of January 13, 1958.

Mr. SOURWINE. Is this your reply, Dr. Pauling?

Dr. PAULING. Let me see.

This is a letter in which I said:

I may say that the signatures of scientists to the petition to the United Nations that I presented to the Secretary General on January 15, 1958, are available for your inspection at the United Nations headquarters in New York. When I placed the petition and the names of the scientists in the hands of Mr. Dag Hammarskjold, Secretary General of the United Nations, on January 15, 1958, he told me that the signatures and the list of signers would remain on file in the United Nations headquarters, and would be available for inspection by any interested person.

Now, as I read this letter, I realize that was not cleverly enough phrased, in that it said the signatures of the scientists, when it should have said the names of the scientists.

I thought it was wise to keep the signatures, in the way that the names on written petitions are, and I have them in my safe. I think I can say I have tried to keep them with care.

Mr. SOURWINE. May these letters go in the record, Mr. Chairman?

Senator DODD. Yes; without objection.

(The letters, referred to above were marked "Exhibits Nos. 2 and 2-A" and read as follows:)

(EXHIBIT No. 2)

WASHINGTON, D.C., *March 8, 1960.*

Dr. LINUS PAULING,
Pasadena, Calif.

DEAR SIR: Would you kindly send us for our files a copy of the list of 9,000 scientists of 43 countries who are alleged to have signed a petition "to the governments and people of the world" as of January 13, 1958? Thank you for your courtesy.

Very truly yours,

BENJAMIN MANDEL,
Research Director, Internal Security Subcommittee.

(EXHIBIT No. 2-A)

CALIFORNIA INSTITUTE OF TECHNOLOGY,
Pasadena, March 11, 1960.

Mr. BENJAMIN MANDEL,
Research Director, Internal Security Subcommittee, Committee on the Judiciary, U.S. Senate, Washington, D.C.

DEAR MR. MANDEL: In answer to your letter of March 8, 1960, I may say that the signatures of scientists to the petition to the United Nations that I presented to the Secretary General on January 15, 1958, are available for your inspection at the United Nations headquarters in New York. When I placed the petition and the names of the scientists in the hands of Mr. Dag Hammarskjold, Secretary General of the United Nations, on January 15, 1958, he told

me that the signatures and the list of signers would remain on file in the United Nations headquarters, and would be available for inspection by any interested person.

Yours truly,

LINUS PAULING.

Mr. SOURWINE. We understand, then, that no signatures were ever filed with the United Nations?

Dr. PAULING. That is right; no signatures were ever filed with the United Nations, but only a transcribed list of names, as carefully transcribed as possible—names, cities, and professions. This is the information that I had asked for.

Mr. SOURWINE. To complete the record, Mr. Chairman, I offer for the record a carbon copy of a letter addressed by the director of research to the American mission to the United Nations, after we received Dr. Pauling's letter, and the reply which was received.

Senator DODD. Yes. I think it may go in the record, but I think we ought to show it to counsel for Dr. Pauling, who ought to see it before we put it in the record.

Mr. WIRIN.[1] Thank you.

Senator DODD. I would not say it may go in; I say we will show it to counsel first, and if there is any objection, let us know.

Mr. WIRIN. I will show it to Dr. Pauling also.

Senator DODD. No objection?

Mr. WIRIN. None at all.

Senator DODD. Senator Keating, Senator Cotton, and Senator Johnston might like to see it.

If there is no objection, this letter from the director of research of this subcommittee to the U.S. mission to the United Nations, under date of March 14, 1960, will be admitted and made part of the record. It is a very brief letter, and I think it would be helpful if it is read aloud:

U.S. MISSION TO THE U.N.,
New York, N.Y.

GENTLEMEN: I am informed that Linus Pauling presented to the Secretary-General of the United Nations on January 15, 1958, a petition against atomic testing, allegedly signed by 9,000 scientists. Would it be possible for us to have a photostat of this petition, including the signers, for our record?

Thanking you for your cooperation, I am,

Very truly yours.

(The letter of March 14, 1960, above referred to, having been read in full, was marked "Exhibit No. 3" and filed for the record.)

Mr. SOURWINE. The committee, sir, received this reply from Mr. William B. Macomber.

Senator DODD. Again, show this to Dr. Pauling and his counsel.

Dr. PAULING. Senator, I should like to comment on this letter, perhaps after the letter is read.

Senator DODD. May we first decide whether or not it will be admitted.

Senator Johnston has not yet seen it.

Without objection, this letter dated March 29, 1960, addressed to the chairman of the committee, signed by William B. Macomber, Jr., Assistant Secretary of State, may be admitted and made a part of the record.

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[1] Abraham Lincoln Wirin, of Los Angeles.

Since I read the first letter, I think it would be proper to read the answer. I will read this letter:

DEAR MR. CHAIRMAN: I refer to my letter of March 23, 1960, acknowledging the receipt of a request for a list of the names of the scientists who signed the Linus Pauling petition calling for the cessation of nuclear weapons testing.

Although the press release issued by Dr. Pauling made reference to a total of 9,235 scientists from 44 countries as having signed the petition, only a partial list was communicated to the Secretary General of the United Nations. A copy of Dr. Pauling's press release and a partial list of petitioners referred to in the release are enclosed for your information.

If I can be of further assistance, please do not hesitate to call upon me.

Sincerely yours,

WILLIAM B. MACOMBER, Jr.

This letter may be admitted.

I notice that this letter refers to a press release and list of petitioners.

(The letter of March 29, 1960, was marked "Exhibit No. 4" and reads as follows:)

EXHIBIT NO. 4

DEPARTMENT OF STATE,
Washington, March 29, 1960.

Hon. JAMES O. EASTLAND,
Chairman, Subcommittee To Investigate the Administration of the Internal Security Act and Other Internal Security Laws, Committee on the Judiciary, U.S. Senate.

DEAR MR. CHAIRMAN: I refer to my letter of March 23, 1960, acknowledging the receipt of a request for a list of the names of the scientists who signed the Linus Pauling petition calling for the cessation of nuclear weapons testing.

Although the press release issued by Dr. Pauling made reference to a total of 9,235 scientists from 44 countries as having signed the petition, only a partial list was communicated to the Secretary General of the United Nations. A copy of Dr. Pauling's press release and the partial list of petitioners referred to in the release are enclosed for your information.

If I can be of further assistance please do not hesitate to call upon me.

Sincerely yours,

WILLIAM B. MACOMBER, Jr.,
Assistant Secretary.

Enclosure: Press release and list of petitioners.

Mr. SOURWINE. I have that here, Mr. Chairman. I propose next to show it to the witness and ask him some questions.

Senator DODD. It will go in separately, so that the Chair may rule that this letter may be received and made a part of the record.

(The enclosure referred to by Mr. Macomber was marked "Exhibit No. 6" and appears at p. 41 as Appendix I, following the testimony.)

Dr. PAULING. May I comment?

Senator DODD. Yes. If you would like to comment upon that letter, I think this is the time to do it.

Dr. PAULING. Yes.

The United Nations official apparently has made a mistake. The press release, of course, is a press release that I prepared and issued with the partial list of signatures. The petition, plus the list of 9,235 signers of the petition, was communicated, given by me into the hands of Mr. Hammarskjold, in the presence of my wife, on the 15th of January 1958.

Mr. Hammarskjold explained to me that the petition and the list of signers would remain on file and open to inspection.

I, myself, know that the number was 9,235, with perhaps a small probable error, but I verified the number.

I then sent by mail to Mr. Hammarskjold, after a preliminary communication, an additional list of about 2,000 signers whose signatures had reached me later, so that the total number became 11,021, and these lists are on file in the United Nations Headquarters in New York, unless by some accident they have been thrown into the wastebasket or something has happened to them.

They are there, unless something—unless they have been lost by some circumstance, which I think is highly unlikely.

Senator JOHNSTON. May I ask a question?

Senator DODD. Yes.

Senator JOHNSTON. If they have been lost, do you have a copy of that list?

Dr. PAULING. I have a copy of that list, one copy; but I have also the original signatures or facsimiles. In the case of a few countries, where I had written to scientists asking for signatures, I have only facsimiles, photographic facsimiles of the petitions, with the signatures in my safe.

I have not answered rather numerous requests that I have received to give a list of signatures because I have only one carbon copy, plus the original signatures. I have felt that it was not worth the considerable expense that would have been involved in making the complete set of copies. I have much better uses for my money, which I spend rather freely, on things that I think are worth while. If I thought this was worth while, I would spend it on this, too, and I have not wanted to take the chance of losing either the carbon copy or the collection of original signatures.

Mr. SOURWINE. Is this why, Dr. Pauling, having the signatures in your safe, when we asked for them you referred us to the United Nations?

Dr. PAULING. That is right.

Well, the use of the word "signatures" was an oversight. I have a tremendous—I carry on a tremendous correspondence and none too successfully, because I have a desk piled high with letters, and I do my best to take care of my mail; I dictate my letters, and I am subject to a bit of a human fallibility.

Senator KEATING. In the best professorial tradition.

Dr. PAULING. Yes.

Senator DODD. I think as long as this matter was asked about, it ought to be completely covered.

When was the request made of Dr. Pauling for his original list?

Mr. SOURWINE. I was referring, Mr. Chairman, to the letter which was just put in the record; this letter did not mention what the doctor's letter referring us to the United Nations did.

Senator KEATING. I thought you said that, when he was asked for the list, he referred us to the United Nations.

Mr. SOURWINE. Yes, he did.

Senator DODD. When was he asked for the list?

Mr. SOURWINE. In the letter which was just put in the record a moment ago.

Dr. PAULING. In March, I think.

Senator DODD. Very well. I wanted that made clear on the record.

Mr. SOURWINE. Mr. Chairman, this was the enclosure which came with the letter from Mr. Macomber, which just came into the record.

I should just like to show this to the witness and ask one or two questions about it.

You will note, Doctor——

Senator DODD. Just a minute, Mr. Sourwine. I don't think this is clear in the record.

Unless I have made a mistake, and if I have I would like to clear it up to my own satisfaction, I understood counsel to ask Dr. Pauling if this is why he referred us to the United Nations when we asked for the list.

Mr. SOURWINE. Yes.

Senator DODD. And when I asked when he was asked, that is, when Dr. Pauling was asked, I understood you to say that related to the letter from Mr. Macomber.

Mr. SOURWINE. No, it related to a letter to Dr. Pauling, from Mr. Mandel to Dr. Pauling, dated March 8.

Senator DODD. Let me see it.

Mr. WIRIN. That is as I understand it, too, Senator.

Senator DODD. We haven't seen these letters, Mr. Counsel.

Mr. WIRIN. Yes.

Senator DODD. I haven't seen them; I don't think any member of the committee has seen them before this morning.

Mr. WIRIN. Yes, sir.

Senator DODD. All right; go ahead.

Mr. WIRIN. May we just look at this a moment?

Mr. SOURWINE. Yes. I call your attention first to the first three pages of this exhibit. You will note that these constitute what appear to be a press release.

My question is: Is this a copy of a press release which you issued?

Dr. PAULING. It seems to be, on casual inspection. I haven't read it through word by word, but it looks like a press release, and I still have copies of the original press release.

Mr. SOURWINE. On page 2 of this press release, you will note it is stated that you wrote to a few scientists in each country asking that they obtain signatures. Do you have a list of these scientists in each country to whom you wrote?

Dr. PAULING. I think that I have carbon copies of all my letters filed away in my files. I don't see any reason why I shouldn't have them.

Mr. SOURWINE. About how many such letters were written, Dr. Pauling?

Dr. PAULING. I suppose I wrote to scientists in every country except one or two where I couldn't find the name of any scientists, and in some countries I wrote half a dozen or more letters. If we don't count the United States, where I sent out hundreds of letters, I suppose the total is 200 or 250.

Mr. SOURWINE. Would you be willing, Dr. Pauling, to furnish the committee a list of the individuals to whom you addressed those letters?

Dr. PAULING. Well, if you feel that it is important, I will make the effort when I get back home. I will look through my files and pick out the carbon copies and I'll get a secretary to help me and do my best to get the list together.

Senator DODD. Maybe we could help you and send out some people to help you look. How would that be?

Dr. PAULING. I think I would prefer to do it myself, with a secretary of my own. If you could make a grant to me——

[Laughter.]

Senator DODD. We would be glad to send out some people, a stenographer perhaps, to help you.

Dr. PAULING. It may well be that the carbon copies are all together with the signatures. I can't remember well enough how my files were being kept at that time, and I don't remember having seen the carbon copies recently. I feel sure that they haven't been thrown away.

Senator DODD. Very well.

Mr. SOURWINE. Might it be the order sir, that this letter, when received from Dr. Pauling, go in the record at this point?

Senator DODD. Yes, so ordered without objection.

(The list of correspondents above referred to was ordered marked "Exhibit No. 5" for reference, but had not been supplied when this document was sent to the printer.)

Dr. PAULING. May I make a statement about these scientists?

I have been asked from time to time by various interested people how I got the names of the scientists. Well, I know a lot of scientists whom I have met at international meetings, and I remember some of them and some of their names are familiar. So, I put down the names that I remembered. In general, I didn't remember well enough to know whether they would be interested in doing such a thing or not, but I wrote to them anyway.

I looked in some of the scientific journals, especially those on biochemistry, to pick out scientists who I thought might be interested, biochemists and geneticists, and I picked some names out of the journals, and I looked in a document called, I think—a big volume—"The World of Learning." It gives the names of university professors in the universities all over the world, and I picked out the names of, in general, professors of biochemistry or chemistry or genetics, but in some cases other people, and just—sometimes because of the names appealing to me for some reason that I didn't understand. I did this myself.

Mr. SOURWINE. Did you receive personal replies from any of those scientists that you wrote to?

Dr. PAULING. Yes. I received personal replies, and from these scientists—are you asking especially about the foreign scientists, or American scientists, too?

I wrote to many American scientists. I received many letters and I have, of course, received usually a covering letter along with the signed copies of the petitions which were returned to me.

Mr. SOURWINE. This release, Dr. Pauling, states:

> In some countries, no effort was made to obtain signatures except from a few leading scientists.

Were you referring there to your own efforts or to efforts made in those countries?

Dr. PAULING. To efforts made in those countries, according to the information that reached me, or it may be that this was a surmise on my part; when I received an answer to letters that I had sent to several scientists in Russia, a list of signatures with—I have forgotten the number—a couple of hundred signatures of members of the Russian

Academy, and nobody else so far as I remember, I surmised that whoever was doing the job had asked only other members of the Russian Academy of Sciences for signatures. So it may have been, in part, that my statement was based on a surmise. And then, in other countries, it was evident from the nature of the statements made about professions, that everybody had been asked to sign and had signed, everybody who might call himself a scientist.

Also, I received a letter from C. V. Raman, the Indian scientist who received the Nobel Prize for physics some 20 years ago, saying that he was communicating to me a considerable list of signatures of scientists in Bangalore, and that I was no doubt getting some other lists from others in India; that every scientist in India would sign this petition and if I wanted to have thousands of signatures, just to send word and they would make the effort for thousands of signatures of Indian scientists.

Mr. SOURWINE. Doctor, it seems to be clear from your testimony that you did not receive 9,000 pieces of paper, each with a name on it, but that you received a somewhat smaller number of petitions with varying numbers of signatures on them and that they were submitted to you by different individuals in different countries. Is that correct?

Dr. PAULING. That is right. And, for some of the copies of the petitions, and in some cases, I cut the text of the petition off of the signatures, when I ran out of copies of the petition and needed them, and I saved space in this way. But, in most cases, what I have in my collection of signatures is a sheet of paper which has printed at the top the petition, the statement, and below it the names of the signers and there may be some times when they run over onto the back page. There may be as many as 50 on one sheet, and the city and profession.

I have several hundred of these pieces of paper which constitute it.

In some cases, the petition was translated into the language of the country, and in some cases I have a translation with the signatures; in some cases, from some foreign countries, the original statement, as I myself wrote it, printed in English, with the signatures of the people who signed.

Mr. SOURWINE. Dr. Pauling, I would not want to ask you for each of the letters that you received, but would it be possible for you to give the committee a list of the individuals who did submit to you one or more signatures with some indication of how many signatures he submitted? This would show how the petition was brought together, how many people were working on it, and who and where in the various countries.

Dr. PAULING. In the case of Americans, too?

Mr. SOURWINE. Yes, sir.

Dr. PAULING. I feel some concern about my duty to the people who worked for this petition. I feel concern that they may be subpenaed before this subcommittee, subjected to the treatment that I have been subjected to, and although I made no promise of any sort, of course, to anybody, I might ask the respective Senators who are here what they think my duty is in this case.

I am not willing to hide anybody and, you know, I want to do everything that I can for the safety of the United States of America.

I just ask this question. I should like to ask what use this information will be put to.

Senator DODD. Perhaps it would help you if I remind you that this line of inquiry arises out of Mr. Macomber's letter in which it says that the number of signatures is something different from the number that you have reported.

Now, we are interested in this sort of thing and I think your answer was, in substance, that Mr. Macomber made a mistake. Well, we would like to find out, and that is why we are asking.

Dr. PAULING. Mr. Senator, I think that you should check with the United Nations before you make such a request to me, for this reason: If this is the reason, why do you not check with the United Nations and see the original list of signatures and postpone until some later time your request to me for these names, for this reason—in any case, I see no reason why, if this is the reason for asking for the names that I have just been asked for, you would not be satisfied with the list of signers. But I have just been asked for a list of names of people who collected the signatures. That is a different matter, not coming under the heading that you have just described.

Senator DODD. Why don't you do that? I don't think there is any need to press it.

Dr. PAULING. I have only asked that the reason be made clear to me and I have expressed my concern about the intentions of this subcommittee, respectfully.

I will tell you what there is in my mind.

Senator DODD. Well, all right.

We will get on with the questions, please.

Senator COTTON. Mr. Chairman, may I ask a question?

Senator DODD. Yes.

Senator COTTON. Doctor, I am interested in your query and your apparent apprehension about your duty, whether to disclose or decline to disclose the names of people who collected the signatures. Are you acquainted with Mr. Willard Uphaus; do you know who he is?

Dr. PAULING. I know who he is and I have a mental picture of him; I feel sure that I have met him.

Senator COTTON. Are you familiar with his organization called World Fellowship, Inc., operated in Conway, N.H., my own State? I happen to be from New Hampshire. Do you have any familiarity with that at all?

Dr. PAULING. No, I am not familiar with that organization.

Senator COTTON. Thank you, Mr. Chairman.

Senator DODD. All right, sir.

Mr. SOURWINE. The press release that is before you, Doctor, has a number of sublists such as Nobel Laureates in Physics, members of the National Academy of Sciences, and so forth. Were these all prepared by you?

Dr. PAULING. Yes.

Mr. SOURWINE. This press release, in a number of instances, such as Ceylon, Czechoslovakia, Egypt, Germany, Great Britain, Italy, Japan, Norway, and the United States, lists a few signatures and then adds the phrase, "Additional signatures."

Do I understand correctly from your testimony that this was a shortening simply for the purpose of the press release?

Dr. PAULING. That was right. It was quite a chore to get out this document, this press release, and I thought that the names of these individuals were not of much interest.

Mr. SOURWINE. You will note that in this press release, there is no list of Soviet Union signers. Were they eliminated for any particular reason?

Dr. PAULING. There was a list of all of the Soviet Union signers in the press release as issued, and I judge that the United Nations mislaid that part. I am sure that my memory is right on this point, and, well, when I say I am sure, I have to recognize fallibility, but I can remember, I can visualize, the pages that followed the list of fellows of the Royal Society of London, which, itself, followed the list of members of the National Academy of Sciences of the United States.

Mr. SOURWINE. Mr. Chairman, I have here what purports to be a complete list of the signatures of the names of scientists submitted by Dr. Pauling to the United Nations, together with what purports to be a photostat of the doctor's covering letter in connection with this transmission.

With the Chair's permission, I would like to show this to the witness and ask a question about it.

Senator DODD. Yes.

Mr. WIRIN. May I ask in what way the document now being shown the witness differs from, or is similar to, the document shown before?

Mr. SOURWINE. Yes. This is a very pertinent question. There are a great many differences and I think rather than attempt to collate the two documents here, if the chairman permits, we will offer both documents for the record, and let the lists and so forth be there for comparison in case anybody wants to see.

In cases, the difference may be of no significance. I don't know that there are many, but there are some. Sometimes there are additional names, sometimes they are in slightly different order.

Mr. WIRIN. Thank you. That orientates me on the situation.

Mr. SOURWINE. Mr. Chairman, while the witness is examining this list, I have here the letter of transmittal which came up from the Department of State with regard to the list and thought the Senators might wish to look at this, and we can offer it in connection with the lists.

The first five pages of this exhibit——

Senator DODD. Wait a minute. I don't know if they have read it yet.

Have you had time enough to look at the document?

Mr. WIRIN. Yes, sir. Dr. Pauling recognizes the document.

Mr. SOURWINE. The first four pages are not a list. The remainder of this exhibit appears to be the complete list of signatures submitted to the United Nations.

The first three pages constitute a letter addressed by you to Mr. Hammarskjold; that is, a photostat of such a letter.

Dr. PAULING. Yes.

Mr. SOURWINE. That is the letter which you transmitted to him with the lists?

Dr. PAULING. That is the letter that I gave to him by hand in his office on the 15th of January 1958, 2 days after the date which is here.

Mr. SOURWINE. The fifth page is the petition itself?

Dr. PAULING. That's right.

Mr. SOURWINE. The fourth page is the cover page of the petition; and the rest of the pages are the list of names.

Dr. PAULING. Well, in my copy, the fourth page is the cover page and the fifth page is the petition itself.

Mr. SOURWINE. I thought that is what I said, but maybe I reversed them in speaking. However, the record will show.

The fourth page is the cover page and the fifth page is the petition.

Mr. Chairman, as counsel has pointed out, there are differences, so may both these lists be offered for the record at this point?

Senator DODD. Without objection, they may be admitted.

(The two documents referred to above were marked "Exhibits No. 7 and No. 8" and are printed at pp. 75 and 300 as Appendix II and Appendix III.)

Dr. PAULING. Mr. Chairman, may I point out that I doubt that this is the complete list. I don't think that the second group of 2,000 signatures——

Mr. SOURWINE. No, it is not. That is still to be offered.

Dr. PAULING. I see; so it is not.

Mr. SOURWINE. First, we have the press release which was an abbreviated list, and then we have what I call the second list, because it is the second list that we got from the State Department, or through the State Department, which purports to be the original submission to Mr. Hammarskjold with the letter that went with it, as to 9,000 names.

Dr. PAULING. Yes.

Mr. Chairman, would it be proper for me to read the petition to which we are devoting so much attention?

Senator DODD. Well, let's get this part of the proceeding concluded.

We will admit this document with the other one as requested by counsel, and it may be made a part of the record; and when we have concluded with it, I take it there will be some other offerings.

Mr. SOURWINE. That is right.

Senator DODD. Then you can comment about it.

We would like to do it in an orderly way.

Dr. PAULING. Well, I should like to have the Senators who are here, who may not have read the petition, know the contents.

Senator DODD. We will do that, we will get it in the record today.

Mr. SOURWINE. After you had transmitted this first set of names to Mr. Hammarskjold, did you thereafter, on or about July 3, 1958, to be precise, transmit a second list of names?

Dr. PAULING. I did.

Mr. SOURWINE. And that transmission was made by letter, I believe you said.

Dr. PAULING. Yes.

Mr. SOURWINE. Were any actual signatures transmitted with this second list of names, or did you keep them also in the safe?

Dr. PAULING. I kept them also, yes.

Mr. SOURWINE. Mr. Chairman, this is what purports to be a photostatic copy of the second transmission. You will note it includes in the first page a letter of transmittal signed by Dr. Pauling.

I would like to show this to the witness.

Senator DODD. Very well.

Mr. SOURWINE. Does this represent, Dr. Pauling, a photostat of the second transmittal you made to Dr. Hammarskjold, your letter and the second group of names?

Dr. PAULING. Yes, it does; whether the lists are complete in either case, of course I am not able to verify in this brief inspection.

Mr. SOURWINE. You will note that the markings on this photostatic copy of your letter indicate that it went to Mr. Andrew Cordier of the United Nations Secretariat on July 7; that Mr. Cordier marked it for transmittal to Dr. Ralph Bunche; Dr. Bunche subsequently saw the document. Do you see those notations?

Dr. PAULING. I do.

Mr. SOURWINE. Did you ever discuss this petition with Mr. Cordier?

Dr. PAULING. No, I never did—so far as I am aware of it, I have never met him.

Mr. SOURWINE. Did you ever discuss it with Dr. Bunche?

Dr. PAULING. No.

Mr. SOURWINE. Mr. Chairman, may this document also go in the record at this point?

Senator DODD. Without objection.

(The photostatic copy of documents under date of July 3, 1958, was marked "Exhibit No. 8" and appears at p. 300 as Appendix III.)

Mr. WIRIN. Have the others been received?

Senator DODD. All three are now in the record.

Mr. SOURWINE. I now show you the letter, sir, from Mr. Macomber which the Senators have seen, which came along with the transmission of the last two photostated lists.

Senator DODD. I think you asked for some opportunity to comment on these exhibits?

Mr. WIRIN. We are waiting until this entire group is received in evidence.

Senator DODD. They are now part of the record. Is there anything else?

Mr. SOURWINE. Only this last letter which I understand the Chair has received.

Senator DODD. This letter will be admitted, unless there is objection.

(The letter of June 20, 1960, above referred to, was marked "Exhibit No. 9" and reads as follows:)

EXHIBIT NO. 9

DEPARTMENT OF STATE,
Washington, June 20, 1960.

Hon. JAMES O. EASTLAND,
Chairman, Subcommittee To Investigate the Administration of the Internal Security Act and Other Internal Security Laws, Committee on the Judiciary, U.S. Senate.

DEAR MR. CHAIRMAN: I wish to confirm the information given you by a representative of the Department on June 17, 1960, concerning the petition submitted to the Secretary General of the United Nations by Dr. Linus Pauling urging an international agreement to cease nuclear weapons testing.

Pursuant to your request an inquiry was made of the United Nations regarding the form of the petition and the manner in which it had been executed. An official of the United Nations informed a Department officer that the petition, which was submitted in two parts, consisted of a series of type written names and that no signatures appeared anywhere in the petition other than in Dr. Pauling's letter of transmittal addressed to the Secretary General. Photostats

of both parts of the petition as submitted to the Secretary General have already been made available to you.

If I can be of further assistance in this matter please do not hesitate to call upon me.

Sincerely yours,

WILLIAM B. MACOMBER, JR.,
Assistant Secretary.

Dr. PAULING. I note that the list of signatures of Soviet signers, 216, is included here. And I feel reasonably sure that it was in the news release, too.

The petition to the United Nations, to which all of this refers, is a statement that I wrote on the 14th and 15th of May 1957, in St. Louis. At that time, there was considerable discussion going on among scientists about the dangers of fallout from nuclear weapons tests.

I have been giving, since 1945, talks to my fellow scientists, members of service clubs and groups of people, Democratic clubs, and groups of people of all sorts, about the nature of nuclear weapons and nuclear war, and have devoted an increasing amount of time to this.

Senator KEATING. Dr. Pauling, may I interrupt you to say that we endeavor to keep partisanship out of this.

Mr. WIRIN. Dr. Pauling speaks to Republican clubs also.

Senator COTTON. Maybe the Republican clubs are not big enough to merit your attention.

Dr. PAULING. I accept invitations everywhere I receive them, without discrimination.

The activity for which I was in St. Louis on those two days was the Convocation of Washington University in St. Louis, called the Honor Convocation in honor of the newly elected members of Sigma Xi, Phi Beta Kappa, the Order of the Coif and similar organizations, and I spoke on science in the modern world.

I talked about many subjects, including a discussion of radioactive fallout and its biological effects, and a strong statement of the feeling that I had developed at that time that the progress of science, as applied to methods of waging war, necessitated that war be abandoned and that we find some way of running the affairs of the world in accordance with the principles of justice and morality, and with the development of a system of international law.

The response by the many hundreds, more than a thousand, students and professors and other people who were present, at that assembly, held in the morning, caused me to decide to put out an appeal by American scientists, which I myself wrote that afternoon with the help of members of the university in St. Louis, Washington University, who mimeographed copies of the appeal and mimeographed copies of letters for a list of American scientists whom I knew and whose names I provided.

I signed those letters. They were dropped in the mail. Within a week I had a list of 27 people including myself, who constituted the initial signers of the appeal by American scientists.

I was back in Pasadena and, with volunteeers in St. Louis and Pasadena and in our institute, I got out then a number, great number, several hundred, printed copies of a petition which were mailed to scientists, not all over the United States. We even missed some complete States because the job was done so hurriedly.

By the 4th of June, less than 3 weeks later, it was possible for me to issue a statement to the press that 2,000 scientists, American scientists, including many distinguished ones, had signed this petition. A few months later, after I had made a trip to Europe and many people—I had received letters saying "Are you not going to allow European scientists to sign this appeal?", I decided in the fall that I would put on a campaign to get signatures from signers all over the world, and ultimately I submitted the signatures of over 11,000 scientists from 49 countries, obtained in large part by, I must say, my own efforts, but with the collaboration and assistance of a considerable number of volunteer workers.

I think that I may have paid for some secretarial help, and of course there were some expenses involved. Ultimately these signatures were obtained and turned over to the United Nations.

The petition which I would like to read in order to make my position clear——

Senator DODD. How long is it, Doctor?

Mr. WIRIN. It is five paragraphs.

Senator DODD. Very well.

Dr. PAULING (reading):

We, the scientists, whose names are signed below, urge that an international agreement to stop the testing of nuclear bombs be made now.

Each nuclear bomb test spreads an added burden of radioactive elements over every part of the world. Each added amount of radiation causes damage to the health of human beings all over the world and causes damage to the pool of human germ plasm such as to lead to an increase in the number of seriously defective children that will be born in future generations.

So long as these weapons are in the hands of only three powers an agreement for their control is feasible. If testing continues, and the possession of these weapons spreads to additional governments, the danger of outbreak of a cataclysmic nuclear war through the reckless action of some irresponsible national leader will be greatly increased.

An international agreement to stop the testing of nuclear bombs now could serve as a first step toward a more general disarmament and the ultimate effective abolition of nuclear weapons, averting the possibility of a nuclear war that would be a catastrophe to all humanity.

We have in common with our fellowmen a deep concern for the welfare of all human beings. As scientists we have knowledge of the dangers involved and therefore a special responsibility to make those dangers known. We deem it imperative that immediate action be taken to effect an international agreement to stop the testing of all nuclear weapons.

(Signed) LINUS PAULING.

I would point out that at this time there was no government whose policy was represented by the statement given in this petition, but that within a year or little more than a year this became the policy of the United States, Great Britain, and the U.S.S.R., exactly the statement, the policy that is urged in this petition, so that since August 1958, in supporting this petition, I have been supporting the policy of the U.S. Government as expressed by its having ceased its own nuclear weapons tests and having originated with Great Britain the negotiations for the international agreement for cessation of all nuclear weapons testing going on in Geneva.

Mr. SOURWINE. Do you think it probable, Dr. Pauling, that this petition brought about this change in policy, or crystallization of new policies in the nations of the world?

Dr. PAULING. I don't believe that it is right to say that this petition brought about the change in policy, but it would please me im-

mensely, and, in fact, does please me immensely to think that this petition and my activity may have played a certain, even though perhaps only a small part, in having brought about this change, not only in the United States, but in the U.S.S.R. and in Great Britain and in the opinions in other nations of the world.

Mr. SOURWINE. Dr. Pauling, what Washington University scientists helped you write the appeal on May 15, 1957, as recounted in your book "No More War!"?

Dr. PAULING. I think that the only two men with whom I discussed the wording were Prof. Barry Commoner, who was the chairman of the committee which had invited me, and with whom, on the day before, I had discussed and, in fact, in correspondence, I had discussed the subject of my talk, "Science in the Modern World," and Prof. E. U. Condon, who is the head of the physics department, a former Director of the U.S. National Bureau of Standards. I believe they were the only two men.

My memory is that the wording was changed very little by consultation with them, but I give them credit, I think, for some improvement in phraseology.

Mr. SOURWINE. You have told us that you had some volunteer helpers. Would you be willing to tell the committee who were the volunteer helpers who helped you to secure these petitions?

Dr. PAULING. Well, they were people around our laboratory, and the man whom I remember most clearly, you know, I don't remember—really, who the people were who worked there, I have a lot, there are many people around our laboratory, but I remember very clearly Prof. Herbert Jehle, who is a physicist who was spending a leave of absence with a fellowship with, perhaps, the support of his professorship, working on problems of molecular biology, molecular structure in my laboratory. He is a well known and very able man who is at present here in Washington at George Washington University, and who continues to be greatly concerned about, not only matters of war and peace, but also questions relating to morality in general.

Mr. SOURWINE. Dr. Pauling, do you not regard it as a very substantial accomplishment to secure more than 11,000 signatures from all over the world within the space of 8 months?

Dr. PAULING. It was really within a much shorter time than that, because, as I say, it was not until fall, October, roughly, when I decided to collect signatures from all over the world.

I think that it is stated, if my recollection is correct, if I remember correctly, in my press release, or letters, I said that the fact that so many signatures could be obtained in this short time shows the concern of American scientists and of scientists in all countries, the great concern of these scientists about this very important problem. I think it was a great accomplishment, but I think that it has to be explained by, not special initiative, or virtuosity on my part, or even on the part of my associates, but by the great concern of the scientists themselves.

Mr. Chairman——

Senator DODD. Yes.

Dr. PAULING. Mr. Chairman, the magnitude of this accomplishment no doubt has suggested to many people that it must have also been very expensive, and that my income—of course I was a poor boy and have felt very pleased that my efforts have brought me a certain

amount of affluence—that my income, which has now grown considerably, and it is earned income, might not be able to cover it.

Fulton Lewis, Jr., in fact, in his column on the 12th of February 1958 asked: "Which organizations or individuals helped Dr. Pauling in his worldwide operation. Also, such a petition costs money, lots of it. Experts tell me that the expense would average $10 per signature. It is certainly not amiss for a congressional committee to inquire who raised the necessary $100,000."

No congressional committee has, and you have not, too.

I raised the question, and I say that Mr. Lewis' experts greatly overestimated the cost, that it came to about 3 cents per signature instead of $10, that I obtained on the average of 15 signatures per letter, which is 150 times the yield of 1 signature per 10 letters, that he had mentioned; that the total cost was, for the signers outside the United States, the total cost to us, to me in the United States, was about $250, which I expended for stationery, postage, and secretarial help. And that my wife and I are happy that we were able to make this small financial contribution to the solution of world problems. [Applause.]

Senator DODD. If there is any disorder in this hearing we will go into executive session. We want to conduct this in an orderly way.

If there is any more of that, we will retire at once into an executive session.

Dr. PAULING. I note that I state in my book, "No More War!", in which I discussed this matter, that my wife and I also expended about $600 in connection with gathering the American signatures, and, of course, there were, no doubt, expenses in the collection of the signatures that were paid by other people who collected them.

Mr. SOURWINE. This brings us to a point, Dr. Pauling: I should like to renew a question which was asked earlier, I think the committee would be much interested in knowing who were the individuals in the various countries, including the United States, who bore what you have referred to as the expenses of collection, who secured differing numbers of signatures and then transmitted them to you. And, I wonder if we can't prevail upon you to furnish us, after you have returned home, with a list of the individuals who did transmit the varying numbers of signatures to you, and identifications of the number of signatures each such individual transmitted.

Dr. PAULING. This is the same request that was made earlier and withdrawn, but now it is being made for a different reason; is that right?

Mr. SOURWINE. Yes, sir.

Dr. PAULING. May I ask what the reason is?

Mr. SOURWINE. So that the committee may have in its records a picture of how this accomplishment was brought about, and who the individuals were who, in the large part, shared in the accomplishment.

Mr. WIRIN. Could this be a matter of discussion between Dr. Pauling and me, and we will communicate to the committee our position on this matter as promptly as may be?

Senator DODD. I think you should let us know today, promptly.

Mr. WIRIN. Yes, sir.

Mr. SOURWINE. I was waiting for the answer, perhaps I didn't hear.

Mr. WIRIN. We agreed we would advise the committee today with respect to our position on that matter.

Senator DODD. Yes.

Mr. SOURWINE. Very good.

Will you tell us, Dr. Pauling, how the signatures of the Russian scientists on the petition were obtained?

Dr. PAULING. I wrote to several Russian scientists. I am not sure that I remember the names of the ones that I wrote to. I think in every case, they were scientists whom I know, knew, and asked them to gather signatures.

Mr. SOURWINE. When did you do that? When you were writing to the others in May 1957?

Dr. PAULING. No. I have already testified that it was not until around October or November that I began collecting signatures from countries other than the United States, although I had already received a number of signatures sent to me voluntarily by scientists in countries such as Belgium.

The first big group that I received had the signatures of all the professors of science in the Free University of Brussels.

Mr. SOURWINE. Dr. Pauling, on the occasion of your departure for Paris on Tuesday, June 11, 1957, did you state that you would like to add the names of Russian scientists to your appeal, but that you were not sure just how you could go about this—that to send the petition to Russia might put someone on the spot?

Dr. PAULING. I don't remember having said that, but I may have said it. I remember, I believe, that at the airport in New York, a reporter said, "Are you going to get signatures of scientists in other countries to the appeal that you have written and that has been signed by more than 2,000 American scientists?"

And, I answered, "Well, I hadn't thought of doing it, but I might. It might be a good idea."

I may well have made the statement, or a statement resembling the one that you have quoted, have read, and I do not repudiate it. I may have said something like that.

Mr. SOURWINE. The basis for this question, Mr. Chairman, was this article from the New York Times of Wednesday, June 12, 1957, page 6, which does quote the doctor in that way.

I ask that this may be made a part of the record at this point.

Senator DODD. I suppose if there is any objection, I certainly would not press it; it is a news article which purports to say what Dr. Pauling said. I think I would show it to him and if we have any difference of opinion, we will leave it out, if he doesn't want it in.

We wouldn't want to put it in unless some members of the committee want it in.

Mr. WIRIN. We have no objection to it going into the record.

Senator DODD. It may be admitted.

(The newspaper clipping under date of June 12, 1957, page 6, was marked "Exhibit No. 10" and reads as follows:)

(EXHIBIT No. 10)

[New York Times, Wednesday, June 12, 1957, p. 6]

PAULING TO PRESS ATOM BAN ABROAD

BIOCHEMIST LEAVES FOR PARIS—SAYS 2,200 BACK PLEA TO BAR NUCLEAR TESTS

Dr. Linus C. Pauling, the Nobel Prize biochemist, seeking to bring an end to nuclear-bomb tests, left last night for a 2-month lecture tour abroad.

Dr. Pauling, accompanied by Mrs. Pauling, took off at 7:51 p. m. for Paris, aboard an Air France plane.

In an interview earlier at the Westbury Hotel, he said that he would seek effective contact abroad in connection with his recent, widely publicized appeal for an international agreement to halt the testing of the nuclear weapons.

Dr. Pauling, who is left of center politically, said he would like to add the names of Russian scientists to his appeal but was not sure just how he could go about this. To send it to Russia, he said, might put someone on the spot.

However, he said it was likely that he would come in contact with Russian scientists, as well as those from many other countries, at the International Congress of Pure and Applied Chemistry in Paris July 19–24.

MORE ENDORSE APPEAL

He announced June 3 that his appeal had been endorsed by 2,000 scientists. Yesterday he said about 200 additional scientists had given their endorsement since then. The 2,200 include experts competent, he continued, to judge fully the hazards of radiation.

Dr. Pauling said he had formulated the appeal himself, "it was my idea encouraged by people at Washington University in St. Louis; no organization whatever was involved."

He made this statement when asked to comment on President Eisenhower's curiosity, expressed at a recent news conference, over whether some kind of an organization was behind opposition of many scientists to the atomic tests.

"I just feel strongly," Dr. Pauling declared, "that scientists have a moral duty to give their fellow citizens the benefit of their special understanding of these (radiation) questions.

"My conscience will not permit me to remain silent when Dr. (Willard F.) Libby and other representatives of the Atomic Energy Commission make misleading statements about these superlatively important questions" (regarding the amount of hazard to the public).

TEXT OF APPEAL

The text of the Pauling appeal for an end of nuclear tests follows:

We, the American scientists whose names are signed below, urge that an international agreement to stop the testing of nuclear bombs be made now.

Each nuclear bomb test spreads an added burden of radioactive elements over every part of the world. Each added amount of radiation causes damage to the health of human beings all over the world and causes damage to the pool of human germ plasma such as to lead to an increase in the number of seriously defective children that will be born in future generations.

So long as these weapons are in the hands of three powers, an agreement for their control is feasible. If testing continues and the possession of these weapons spreads to additional governments, the danger of outbreak of cataclysmic nuclear war through the reckless action of some irresponsible national leader will be greatly increased.

An international agreement to stop the testing of nuclear bombs now could serve as a first step toward a more general disarmament and the ultimate effective abolition of nuclear weapons, averting the possibility of a nuclear war that would be a catastrophe to all humanity.

We have in common with our fellow men a deep concern for the welfare of all human beings. As scientists we have knowledge of the dangers involved and there is a special responsibility to make those dangers known. We deem it imperative that immediate action be taken to effect an international agreement to stop the testing of all nuclear weapons.

Mr. SOURWINE. Dr. Pauling, I show you a photostat of what appears to be an unsigned letter from you under date of November 6, 1957, asking for assistance in getting signatures to the petition.

I will ask you if this is indeed a copy of a letter which you sent out?

Dr. PAULING. I believe that it is.

Mr. SOURWINE. Can you tell us how many of those were sent out, Doctor?

Dr. PAULING. I have already said in my testimony that I think that I sent out something like a couple of hundred to people, scientists, in foreign countries. It may have been 300, in that order of magnitude.

Mr. SOURWINE. Do you have a list of the individuals to whom you sent this letter?

Dr. PAULING. In answering the same question earlier, I said that I felt sure that I had the carbon copies; I am not absolutely sure but I believe so; I don't have a list but I think that I have the carbon copies.

Mr. SOURWINE. That is the list you have agreed to furnish the committee?

Dr. PAULING. Furnish the committee? I don't believe so; I don't remember.

Mr. SOURWINE. May we ask if the committee could have the list of individuals to whom this letter was sent?

Mr. WIRIN. May we discuss this matter either during the recess or a bit later?

Senator DODD. Surely.

Senator JOHNSTON. Just one question: In keeping your files, do you keep them all under this one heading?

Dr. PAULING. Well, I don't really know how my files are kept. I have tried to keep this stuff separate from my business activities, and I notice that the signature there, the typed letter, has the initials of a girl whom I hired to help me, who is not my secretary; and I am pretty sure that these files are separate, so that I think that I can—I think I have those carbon copies separate from all of my other correspondence.

Mr. SOURWINE. I offer this for the record, Mr. Chairman, as identified by the witness as the letter he sent.

Senator DODD. Without objection, it may be made a part of the record.

(Photostatic copy of letter of November 6, 1957, was marked "Exhibit No. 11" and reads as follows:)

EXHIBIT No. 11

Linus Pauling
3500 Fairpoint Street, Pasadena, California

6 November 1957

Dear Dr [redacted]:

On 15 May 1957, with the help of Professors Barry Commoner and Edward U. Condon (no organization was involved), I wrote an appeal to the governments and people of the world to reach an international agreement to stop the testing of nuclear bombs, as a first step towards a more general disarmament and the ultimate effective abolition of nuclear weapons, decreasing the possibility of a great nuclear war. Within a short time this appeal had been signed by more than 2000 American scientists.

The problem of avertin the impending catastrophe of a nuclear world war still exists. I feel that scientists must continue to do their part in the search for a solution to this problem.

Now I am hoping to obtain more signatures, especially those of leading scientists who did not have an opportunity to sign during the short period in May when the first effort was made.

A copy of the appeal is enclosed. I hope that you will sign it and return it to me before 1 December, or send me a letter or card saying that you sign the appeal.

I propose at some later time, probably before Christmas, to send a statement about the appeal and its support by scientists to the United Nations and to the leaders of nations, and to make a public announcement about it, with the expectation that this action will help to encourage the world toward finding ways of solving world problems other than by war and the threat of war.

Sincerely yours,

Linus Pauling:RJM

Mr. SOURWINE. Dr. Pauling, in the New York Times article which has just gone into the record, you were quoted as having said that it was likely that you would come in contact with Russian scientists at the International Congress of Pure and Applied Chemistry in Paris in July of 1957, and did you, in fact, have such contacts, and did they assist you in getting signatures to the petition?

Dr. PAULING. I don't remember talking to any Russian scientists at this Congress; I didn't talk with any of them about getting signatures to the petition.

It is true that I made a statement to the press, but I had not entertained seriously, as yet, the idea of collecting signatures. At that time, I think that I had not yet received that first batch of about 40 signatures from professors at the Free University of Brussels. I don't believe that I talked to them.

Mr. SOURWINE. Dr. Pauling, I show you a photostat of a printed document entitled "An Appeal by American Scientists to the Governments and People of the World." Is this a form which you used in securing signatures to the petition?

Dr. PAULING. That is the one that was used, in the main. There were some mimeographed reproductions of it, too.

Mr. SOURWINE. You, yourself, had these printed?

Dr. PAULING. No; they were printed in St. Louis.

Mr. SOURWINE. Did you pay for them?

Dr. PAULING. I didn't pay for the printing of this batch. I think there were 500 of them that were printed for appeal to American scientists.

Mr. SOURWINE. Do you know who paid for them?

Dr. PAULING. I don't know who paid for them.

Mr. SOURWINE. Mr. Chairman, with the permission of the Chair, I would like to offer this for the record.

Dr. PAULING. I would like to change that. I think that I may have sent a contribution of $10 or $50 to St. Louis to help with the printing, but I am not absolutely sure. I cannot remember whether I did or not. I wanted to be sure I was not on record as having said that I had not paid for them, if I had paid for them.

Senator JOHNSTON. May I ask, to whom did you send that contribution, if you sent one?

Dr. PAULING. I don't know whether I sent a contribution, and if I did send it, it probably was to Prof. Barry Commoner whom I mentioned and who, I am sure, is proud to be connected with this activity.

Senator DODD. I want to make it clear, this is accepted for the record.

(The document entitled "An Appeal by American Scientists to the Governments and Peoples of the World" was marked "Exhibit No. 12" and reads as follows:)

UNIVERSITY OF MINNESOTA LIBRARIES

EXHIBIT No. 12

AN APPEAL BY AMERICAN SCIENTISTS TO THE GOVERNMENTS AND PEOPLE OF THE WORLD

WE, the American scientists whose names are signed below, urge that an international agreement to stop the testing of nuclear bombs be made now.

Each nuclear bomb test spreads an added burden of radioactive elements over every part of the world. Each added amount of radiation causes damage to the health of human beings all over the world and causes damage to the pool of human germ plasm such as to lead to an increase in the number of seriously defective children that will be born in future generations.

So long as these weapons are in the hands of only three powers an agreement for their control is feasible. If testing continues, and the possession of these weapons spreads to additional governments, the danger of outbreak of a cataclysmic nuclear war through the reckless action of some irresponsible national leader will be greatly increased.

An international agreement to stop the testing of nuclear bombs now could serve as a first step toward a more general disarmament and the ultimate effective abolition of nuclear weapons, averting the possibility of a nuclear war that would be a catastrophe to all humanity.

We have in common with our fellow men a deep concern for the welfare of all human beings. As scientists we have knowledge of the dangers involved and therefore a special responsibility to make those dangers known. We deem it imperative that immediate action be taken to effect an international agreement to stop the testing of all nuclear weapons.

Linus Pauling	Morris Kamen	Severo Ochoa
Harry Commoner	Edwin C. Kemble	G. C. Price
Edward U. Condon	I. M. Kolthoff	Arthur Roberts
Charles D. Coryell	Chauncey Leake	M. L. Sands
Leslie C. Dunn	S. E. Luria	Verner Schomaker
Viktor Hamburger	Max Mason	Laurence H. Snyder
Michael Heidelberger	Carl V. Moore	Oswald Veblen
L. H. Herskowitz	Philip Morrison	M. H. Visscher
Herbert Jehle	Hermann J. Muller	F. H. Zachariasen

List additional signers below, and on the reverse side of this sheet. Please air mail to Linus Pauling, 3500 Fairpoint Street, Pasadena, California, to arrive by DEC. 1, 1957.

NAME *(Please print or write legibly)* PROFESSION CITY

Mr. SOURWINE. Dr. Pauling, when did you first learn that the U.S.S.R. delegation to the United Nations was going to make a request of the Secretary General to be allowed to circulate this petition?

Dr. PAULING. I didn't learn that until, I think, a month or two after it had been circulated, or even perhaps 3 months after it had been circulated. When I presented the petition to the United Nations and held a press conference, I was approached by a young man who was, if I remember correctly, the cultural attaché of the India delegation to the United Nations asking if I would be willing that the India delegation circulate the petition.

This is a system that exists, a petition, or perhaps other document, presented by private individuals, can be circulated by a delegation to the United Nations, as Mr. Hammarskjold had explained to me.

I gave my permission to the young man from the India delegation and that was the last that I heard of it.

Several months later, he came to Pasadena and stopped to see me. I asked why didn't the India Government, or did the India Government circulate my petition? And he said, "Well, we were slow in doing it, or in deciding to do it, and in the meantime the Russian delegation to the United Nations circulated the petition."

I never, so far as I can remember, and this is the only evidence, plus the statement that you have made, that this was done, and that is when I heard of it first, several months after it had been done.

Mr. SOURWINE. Doctor, are you familiar with the circular letter put out by the Southern California Chapter of the National Council of the Arts, Sciences, and Professions under date of February 22, 1951, appealing for contributions to permit the publication of a pamphlet concerning the real significance of atomic energy developments?

Dr. PAULING. No.

Mr. SOURWINE. I show you what purports to be a photostatic copy of this letter.

Dr. PAULING. I have only a dim memory of this letter, but I feel sure that I gave permission for my name to be attached to it.

Mr. SOURWINE. May this letter be offered for the record, Mr. Chairman?

Senator DODD. Yes, unless there is objection.

(The photostatic copy of letter of February 22, 1951, was marked "Exhibit No. 13" and reads as follows:)

EXHIBIT No. 13

SOUTHERN CALIFORNIA CHAPTER

National Council of the Arts, Sciences, and Professions

SARAJO LORD
Executive Director

1586 CROSSROADS OF THE WORLD
HOLLYWOOD 28, CALIFORNIA
GRanite 3188

February 22, 1951

Dear Friend:

The American people have been recipients of misinformation on the one hand and lack of information on the other concerning the A-bomb, and the real significance of atomic energy developments. There is a serious need both for the publication of objective information, and for the widest possible distribution of it. In order to meet this need, the Medical Division and the Science and Education Division of the Southern California Chapter of the Arts, Sciences and Professions Council have collaborated to assemble the necessary facts, figures and references. An advance copy of the resultant pamphlet is enclosed. The work is complete, with layout and artists' illustrations. There is now only one obstacle to prevent immediate publication and distribution - a modest sum of money.

We believe no argumentation is necessary. The pamphlet will speak for itself. If you share our enthusiasm we appeal to you to send us a check for $10.00 or more by return mail in the enclosed envelope to permit the pamphlet to be published and sent out to large numbers of people in our community.

Sincerely yours,

DR. RICHARD LIPPMAN
DR. LINUS PAULING
MR. HERBERT BIBERMAN
MR. PAUL JARRICO
DR. P. PRICE COBBS
DR. LOUIS ROBINSON

Mr. SOURWINE. I point out that this letter carries——

Senator DODD. Just a minute.

Mr. WIRIN. No objection.

Senator DODD. No objection?

Mr. WIRIN. No.

Senator DODD. Admitted.

Mr. SOURWINE. This letter carries the typewritten signature of Dr. Linus Pauling, Dr. Richard Lippman, Dr. Herbert Biberman, Dr. Paul Jarrico, Dr. P. Price Cobbs, and Dr. Louis Robinson.

Do you know these gentlemen?

Dr. PAULING. Well, I know at least two of them—I think perhaps I can say only two of them.

Mr. SOURWINE. Which two?

Dr. PAULING. I know, I did know, Dr. Lippman, Dr. Richard W. Lippman very well, and I know Mr. Herbert——

Mr. SOURWINE. Biberman?

Dr. PAULING. Biberman, only casually.

Mr. SOURWINE. Do you recall, Doctor, who asked you to sign this circular letter issued by the Southern California Chapter of the Arts, Sciences, and Professions?

Dr. PAULING. No, I surmise it was Dr. Lippman who was interested deeply in this matter. Dr. Lippman was my physician.

Mr. SOURWINE. You say "was." Is he still alive?

Dr. PAULING. No. He died on the 26th of December, 1959, at the age of 43.

Mr. SOURWINE. Did you know Dr. Lippman as a member of the Communist Party, U.S.A.?

Dr. PAULING. No. I didn't know—I don't know that he was a member of the Communist Party.

Mr. SOURWINE. Did you know he had invoked the fifth amendment in refusing to affirm or deny that he had ever been a member of the Communist Party or the Communist Political Association?

Dr. PAULING. I can't say that I know that, but I may have heard it. I just——

Mr. SOURWINE. You stated you know Mr. Herbert Biberman. Did you know him as a member of the Communist Party, U.S.A.?

Dr. PAULING. No, I did not.

Mr. SOURWINE. Did you know that Herbert Biberman had appeared before the House Committee on Un-American Activities in October 1947, and had under oath refused to answer questions about his Communist Party membership?

Dr. PAULING. Well, you know, when you say did I know all of this in detail, I am not sure that I did know exactly this. But I——

Mr. SOURWINE. You knew he had appeared before the committee?

Dr. PAULING. I think that, yes.

Mr. SOURWINE. Did you know that at the time of his appearance a copy of registration card No. 46844 for 1944 in the Communist Party made out to Herbert Biberman of 3257 Inonda Drive, Los Angeles, was put into the record?

Dr. PAULING. No.

Mr. SOURWINE. Did you know Mr. Paul Jarrico?

Dr. PAULING. No. I think I can say no. I have met so many hundreds, even thousands, of people that there is a possibility that I have

been in the same room with him, even shaken hands with him, but I have no memory of him.

Mr. SOURWINE. Did you know that Paul Jarrico had invoked the fifth amendment when under oath he was asked a question:

Have you ever been a member of the Communist Party?

Dr. PAULING. No.

Senator DODD. Is he one of the signers of the pamphlet?

Mr. SOURWINE. Yes, sir.

Senator DODD. I think we should make that clear each time without asking questions at random, but related to the documents which have been admitted in evidence.

Mr. SOURWINE. Yes, sir; these are the names of persons whose names were on that document.

Did you know Dr. Price Cobbs?

Dr. PAULING. I believe not. I don't have any memory of him.

Mr. SOURWINE. Did you know him as a sponsor of American Youth for Democracy, a predecessor of the Young Communist League?

Dr. PAULING. No.

Mr. SOURWINE. Did you know Dr. Louis Robinson?

Dr. PAULING. I believe not. I have no memory of him.

Mr. SOURWINE. Dr. Pauling, have you been the vice president of the World Federation of Scientific Workers?

Dr. PAULING. Yes.

Mr. SOURWINE. The president was Frederic Joliot-Curie, a leading French Communist and scientist?

Dr. PAULING. Frederic Joliot-Curie?

Mr. SOURWINE. Yes.

Dr. PAULING. Yes.

Mr. SOURWINE. Did you have assistance in connection with this petition from the World Federation of Scientific Workers?

Dr. PAULING. Not so far as I am aware.

Senator DODD. I suggest we take a recess of 5 minutes, if that is all right, until a quarter of 12.

(At this point a short recess was taken, after which the hearing was resumed.)

Senator DODD. The hearing will be in order.

The Senate convenes at 12 today. We will not be able to sit come 12, because some members of this committee have matters to attend to on the floor. Therefore, it is suggested that we recess now and this will afford Dr. Pauling an opportunity to confer with his lawyer with respect to the two requests that have been made concerning the names, the list of names.

We would like to have an answer as soon as we can because the line of questioning that will be pursued here is dependent to a very considerable extent on the response of Dr. Pauling.

Mr. WIRIN. Mr. Chairman, may I address you before you adjourn?

Will there be other requests of similar import with respect to which you might advise us so that we can discuss them?

Senator DODD. I don't think so, but if there are, we will tell you about them in informal conference. I assume counsel will be talking to you following the recess.

Mr. WIRIN. Very well.

Mr. SOURWINE. I am quite willing to state for the record, Mr. Chairman, that counsel will not ask for any additional lists, if we get the two that have been asked for; that is, if we get a list of the people that the request was sent to, and if we get a list of those who furnished signatures with an indication of how many signatures. Those are the two outstanding requests.

Senator DODD. In any event, we will recess for that purpose and counsel for the committee and counsel for Dr. Pauling hope we may meet as soon as possible.

Mr. WIRIN. Sir, can you indicate as to what time, or shall we be in waiting?

Senator DODD. I don't want to impose a time. I don't know how much time you will need to meet with your client. Can you give us any idea as to what time would be convenient to you? I understood you could do it today.

Mr. WIRIN. Oh, yes.

How long do you expect the Senate to be in session, or is that an unanswerable question?

Senator KEATING. It was 12 o'clock last night.

Senator DODD. We don't know exactly.

Mr. WIRIN. What I am trying to inquire is:

When do you estimate as to when you would reconvene?

Senator DODD. I don't think that needs to disturb you here and now. I think we can arrange to sit.

Mr. WIRIN. You mean this afternoon sometime?

Senator DODD. Yes, if necessary.

But we will want to know the answer to this question first.

Mr. WIRIN. We shall give you an answer quite promptly, sir.

Senator DODD. Fine.

So as soon as you can tell us that, we will come back. If not, we will be in touch with you for that purpose.

We will recess now, subject to the call of the Chair.

(Whereupon, at 11:50 a.m., the hearing was recessed subject to the call of the Chair.)

AFTERNOON SESSION

(The committee resumed at 2:24 p.m. pursuant to the call of the Chair.)

Senator DODD. Sorry, I have been delayed and couldn't get back sooner.

Mr. SOURWINE. Mr. Pauling, word from your counsel during the recess indicates that you have reached a decision with regard to the two pending requests of the committee. Is this correct?

Dr. PAULING. Well, I shall know whether this is correct or not when I make my statement. I have reached—I am prepared to make a statement, yes.

Mr. SOURWINE. All I meant was whether you had decided that you would or would not grant the committee's request. There are two requests pending. With respect to the request that you furnish the committee with the names of certain individuals to whom you sent a particular communication. Will you assent to the committee's request in that regard and furnish those names?

Dr. PAULING. This first request is that I give to the committee a list of names of people in foreign countries, if I understand the re-

quest—a list of the people in foreign countries to whom I sent letters and copies of the petition requesting that they gather signatures. I have——

Senator DODD. Was that a definite request?

Mr. SOURWINE. As I understood the request, Mr. Chairman, it included persons both in the United States and in foreign countries who got this communication.

Mr. WIRIN. Now, I am confused, gentlemen. You are talking about a communication which has been received in evidence?

Mr. SOURWINE. Yes.

Mr. WIRIN. Is that available by any chance?

Mr. SOURWINE. This is a letter asking help, you will recall.

Senator DODD. We'll proceed without delay.

Dr. PAULING. Very well, I——

Senator DODD. I think we'd better suspend for a minute.

(Hearing resumed at 2:28 p.m.)

Mr. SOURWINE. Mr. Chairman, may I talk off the record for just a moment?

Senator DODD. Yes.

(Discussion off the record.)

Senator DODD. We will reconvene the meeting of the subcommittee and continue the hearing.

I think it would be well, Mr. Sourwine, if you now formally made the request of Dr. Pauling for the information that was requested at the morning session.

Mr. SOURWINE. There were two requests at the morning session, Mr. Chairman. One was for a list of the names of individuals to whom Dr. Pauling had sent a certain letter of request for circulation of petitions, which letter is in our record. Dr. Pauling, will you grant the committee's request for this list of names?

Dr. PAULING. This letter is the letter that I wrote to people whom I selected as the recipients. It seems to me that the recipient of a letter bears no responsibility. It has come to him, and he can hardly be blamed for someone's having sent him a letter. The responsibility is mine. I have decided to conform to this request and to give to you the names of the people to whom I sent the letter that was identified this morning.

Senator DODD. Very well. The mechanics of the submission of the list can be worked out between Mr. Sourwine and Mr. Wirin, counsel for Dr. Pauling.

Mr. WIRIN. I would be very glad to cooperate in those mechanics.

Mr. SOURWINE. The second pending request is for the names of individuals who transmitted to you papers bearing some one or more signatures to the petition, with an indication of how many signatures were transmitted by each person so named. Will you comply with this request?

Dr. PAULING. I shall answer this request now. This second request is for the names of people who circulated the petition and sent me copies of the petition with the names of people who had signed them. The petition was a petition which has been read this morning, asking that an international agreement be made to stop the testing of all nuclear weapons; asking that there be some step involving international law for the purpose of protecting the health of people and unborn

children and decreasing the probability of outbreak of a devastating war. I believe that the goal urged in this petition is being approached. The policy that was advocated has become the policy of our Government and of the U.S.S.R. and Great Britain. I don't think, though, that this fact is significant in my decision about the answer to the question. Even if the nature of the petition were such that sensible human beings would think that it was foolish, I would still think that the problem that I am faced with would be the same one.

The circulating of petitions is an important part of our democratic process. If it were to be abolished or greatly inhibited, our Nation would have made a step toward deterioration—perhaps toward a state of dictatorship, a police state.

I am very much interested in our Nation, in the United States of America, and in the procedures that were set up in the Constitution and the Bill of Rights. Now, no matter what assurances this subcommittee might give me about the use of the names of the people who circulated the petition that I wrote, I am convinced that these names would be used for reprisals against these believers in the democratic process; these enthusiastic, idealistic, high-minded workers for peace. I am convinced of this because I myself have experienced the period of McCarthyism and to some extent have suffered from it, in ways that I shall not mention. I am convinced of it because I have observed the workings of the Committee on Un-American Activities of the House of Representatives and of this Subcommittee on Internal Security of the Judiciary Committee of the Senate. I feel that if these names were to be given to this subcommittee the hope for peace in the world would be dealt a severe blow. Our Nation is in great danger now, greater danger than ever before. The danger is not from peace or from the workers for peace, or from the circulators of petitions urging international law and international agreements. It is from the stockpiles of nuclear weapons that exist in the world, which have the capability of destroying the world. They have much more than the capability of destroying the whole of the United States, killing all of the American people and at the same time destroying—and at the same time destroying the U.S.S.R. and all of the Russian people, killing all of the Russian people. This danger, the danger of destruction in a nuclear war, would become even greater than it is now if the work for peace in the world, peace and international law and international agreements, were hampered.

A terrible attack is being made now in the United States on the efforts of our Government to achieve international agreements for stopping the bomb tests and for disarmament. This attack is being made by representatives of defense industries who benefit financially from the cold war. For example, Thomas G. Lanphier, Jr.—L-a-n-p-h-i-e-r—Thomas G. Lanphier, Jr., who has either quit or got leave of absence from his $60,000 a year job, as reported in the New York Times, with one of the missiles manufacturers, in order to state that we shouldn't be making international agreements, but should be increasing our defense budget by $15 billion and be preparing to win the war that will be fought, and also by emotional and unreliable H-bomb scientists such as Dr. Edward Teller, by people such as Mr. Gerhardt D. Bleicken, the vice president and secretary of the John

Hancock Mutual Life Insurance—B-l-e-i-c-k-e-n—vice president and secretary of the John Hancock Mutual Life Insurance Co. and a member of the National Academy of Sciences Committee on Civil Defense, who has written recently in his article published in December 1959 in the Political Sciences Quarterly that our defense does not lie in international agreements, our safety does not lie in international agreements, but only in strengthening our powers of destruction, in increasing our nuclear stockpile, and in using the threat of nuclear attacks as a means of enforcing, by the nuclear threat, our national will on the rest of the world. He doesn't say "irrespective of justice and morality," but he does say enforcing by the nuclear threat our national will on the rest of the world.

There have even been addresses given in the Senate urging the abandonment of our efforts to make international agreements leading to the control of nuclear weapons and to disarmament, and placing or urging that we place our reliance on keeping always a superiority in the great nuclear weapons—a superiority over the U.S.S.R.

If two nations, the U.S.S.R. and the United States, were to try to follow the policy of each striving to exceed the other in the power of destruction year after year, then we would truly be doomed to catastrophe. Then the nuclear war that will destroy civilization surely would come.

I believe that the work for peace and morality and justice in the world needs to be intensified now, and I plan to do whatever I can in working for peace in the world, working for international agreements about disarmament; always, of course, such that they increase the safety of the United States and do not decrease it, and involving controls and inspection; I plan——

Mr. SOURWINE. In case you have forgotten, the question was whether you were going to furnish certain information to the committee.

Dr. PAULING. Yes, I shall answer it in two more sentences.

Senator DODD. All right. I was going to say if you answered it and then you wanted to make your statement that would be all right. I want to get your answer.

Dr. PAULING. I am explaining my answer.

Senator DODD. Why don't you make your answer and then explain it?

Dr. PAULING. Well, I have already done the job of explaining it, so I can't do that.

Senator DODD. All right, then we won't go over that again.

Dr. PAULING. I am responsible for my actions, and I wrote the petition and I sent it out to people, asking that they get signatures to it. I even selected the many people to whom these petitions were to be sent. I think that my reputation and example may well have led many younger people to work for peace in this way. My conscience does not allow me to protect myself by sacrificing these idealistic and hopeful people, and I am not going to do it. As a matter of conscience, as a matter of principle, as a matter of morality, I have decided that I shall not conform to the request of this subcommittee.

Mr. WIRIN. Mr. Chairman, may I make a brief statement of the legal position which should be, I think, in the record with respect to Dr. Pauling's declination.

Senator DODD. Well, I will not deny you any opportunity to say what you like, but I think—we have to proceed here to place in the record the position of the committee anyway—and then if you want to tell us something about your opinion as to the legal aspects of the situation, I shall, of course, be glad to hear you. I think perhaps it might help you——

Mr. WIRIN. I just want to say for the record as Dr. Pauling's counsel, I support his position and his legal position is bottomed on the claim that the request by this subcommittee is not pertinent to any lawful inquiry of the committee or of this subcommittee, and that compliance by him with the request would violate his freedom of conscience and freedom of association and freedom of expression as guaranteed by the first amendment to the Constitution of the United States.

Senator DODD. All right. I didn't want to cut you off.

Mr. WIRIN. No, that's it. I hope that is enough.

Senator DODD. All right. Thank you.

Senator COTTON. I would like to ask one question of the doctor. I understand that your refusal to submit this information to the committee, the moral reasons for it, not the legal, is based on your feeling of responsibility in that you had solicited the cooperation of these various people in this cause. I would like to ask you, Did you receive any unsolicited help, were there any persons anywhere, within or without the United States, who, without request from you, circulated petions or forwarded names to be affixed to petitions?

Dr. PAULING. There were no persons who signed the petition that I am talking about who did not sign it under my signature. There is nobody who——

Senator COTTON. I would respectfully suggest that that doesn't answer my question. It is my understanding that you requested cooperation from various people within and without the United States in contacting other scientists in their neighborhood or in their country, securing their signatures to the petitions; that you wrote these various people and that you now, for reasons that you have very clearly stated, feel that you could not disclose those persons to the committee.

Now, I am not asking you whether those petitions bore your signature. I am asking you if you had cooperation, in the sense of not just signing the petition, but circulating or procuring signatures, from anyone that you did not solicit, any volunteer?

Dr. PAULING. So far as I am aware, there were no signatures attached to these petitions except as a result of letters that I sent out.

Senator COTTON. I am not asking about the signatures on petitions. I assume that certain persons mailed the petitions to you with various signatures on them, that someone was the mover in circulating each petition. Is that the correct assumption?

I mean various people circulated these petitions and secured groups of names. That has been my understanding all day today. Is that correct?

Dr. PAULING. I can only speak of what I know, of what I myself know. I wrote letters to people, sent copies of the petition and requested that signatures be obtained, and I received the signatures, the signed petitions.

UNIVERSITY OF MICHIGAN LIBRARIES

Senator COTTON. I understand. And all I am asking you—and I think it is a simple question, perhaps very simple in the sense of the word—I am simply asking you if you had any persons who circulated or sent you petitions—not just signers—but there are a number of names on a petition; some one person sent the petition to you, or did each name appear on a separate piece of paper mailed by a separate person?

Dr. PAULING. I understand.

Senator COTTON. Now, were there any persons who secured signatures and forwarded groups of signatures to you that were not solicited by you, that did not receive your letters?

Dr. PAULING. I think that I would say in general, I don't know who solicited signatures because I was not there. Also in general I don't know who mailed to me copies of the petitions. Occasionally, I received copies with a covering letter, but if I remember correctly, often without a covering letter.

Senator COTTON. So that, as far as you know, you did not receive any unsolicited aid from any individuals or organizations except those individual scientists to whom you wrote and asked to assist you in this cause.

Mr. WIRIN. In the distribution or circulation of petitions?

Senator COTTON. Circulation of petitions.

Dr. PAULING. This wasn't unsolicited aid in the case of those people, because I had solicited it.

Senator COTTON. I understand. I am asking if you had any unexpected or unsolicited aid from any source other than those to whom you appealed. Now, I think that is a simple straight question, and——

Dr. PAULING. Yes, and I shall answer now. I can't remember being surprised by any petition that I received, or asking myself how did it happen that I had got this group of names. I can remember being surprised by some of the things that came in; that I was surprised that the community. or the city from which the largest number of signatures came was Bethesda, Md. It is understandable. There is a great concentration of scientists there in the National Institutes of Health, so that I was surprised by that. I can't remember—I must say now that I can't remember having received any petitions from people to whom I did not write. But I did not check this, and I can't rely upon my memory.

Senator COTTON. If, in your subsequent thinking about this whole matter, it should occur to you that you did get some aid from sources other than those scientists to whom you very naturally appealed, would your refusal extend to them? Would you be willing to tell the committee those sources?

Dr. PAULING. As I have stated already in my explanation, I am refusing because I believe that, as a matter of conscience, I should not subject people to reprisals for circulating petitions. This is a part of the democratic process. I think that this includes people who have circulated petitions without my having importuned them to do so. I think that every petition that was circulated, every circulator of a petition may have been influenced to some extent by the fact that I wrote the petition, that my name came as the first of the 27, the names of the 27 initial signers, and with the probable knowledge that there had

been a covering letter from me. So that the element of personal responsibility would also enter in my decision. Even the names of these people to whom I had not myself written letters would come under this decision on my part.

Senator KEATING. Dr. Pauling, I am sorry I was a little late. Is your reason for declining to furnish the list the feeling that it might result in what you call reprisals against those who circulated such lists?

Dr. PAULING. That is part of it; that it might result in the deterioration of the process of petitioning the Congress for a redress of grievances, the petitioning aspect of our democratic system in general. That is right.

Senator KEATING. So far as I am concerned, I would lay down my life personally, and I feel sure that that applies to many if not all the members of this committee, to preserve the right of free speech and the right to petition the Congress. It's one of the great advantages of our democracy that we can have our differences and express them freely and not have reprisals. Do you consider your having to testify before this committee in the nature of a reprisal?

Dr. PAULING. I am not sure that it is a reprisal. I don't think that I am, as a human being, important enough to justify this attention. I think that my belief about it is that it is an effort to stop, to change the present policy of our Government to negotiate for international agreements leading to disarmament.

Senator KEATING. Well, I can assure you, Dr. Pauling, that so far as I am concerned it has no such purpose whatever.

Dr. PAULING. Thank you, sir.

Senator KEATING. I feel—I would have to let others speak for themselves—that certainly is very definitely and strongly my feeling. Do you feel that in any way you have been unfairly treated by this committee?

Dr. PAULING. You know I am—I feel that I need to have time to think this question over before answering it. At the present time, I must say, I appreciate the privilege of being here. I have written to the President on occasion offering my services, offering to give whatever advice I might, possibly, to serve in any way. I was a member of the Research Board for National Security for 1 year, 1945–46, 20 civilian scientists and 20 general officers, admirals and generals: and during this year we had, I think, great responsibility. I feel my responsibilities to the United States very deeply.

And I am, of course, convinced that we are moving along in the right direction; that the change in policy that the Government made 2 years ago was excellent, and that our negotiations, the policy of negotiating for disarmament is fine. I believe that it is always possible to find ways of improving the action of the Government. I want to cooperate. I think that I am in strong opposition to the action taken by this subcommittee in asking me for the list of names of people who sent petitions with signatures to me, because I believe, sincerely, that this, no matter what the intentions of the subcommittee—the members of the subcommittee—may be, this is a way of suppressing freedom of speech and freedom of expression of opinion by individual human beings, citizens in the United States.

And my criticism, to the extent that I have a criticism of the subcommittee in inviting me here, is that I have been asked this question. On the other hand, it may be good to have this matter brought up. It has caused me to think pretty deeply about an aspect of life, of government that I hadn't thought about before.

Senator KEATING. Dr. Pauling, I would be very much upset if you felt, or any witness before us really sincerely felt, that he had been unfairly or unjustly treated by this committee, and if you feel you have been unfairly treated, I would certainly want you to point out in what respect you feel that this committee has not been fair.

Dr. PAULING. Very well. Yes; you have asked my opinion about the actions of the subcommittee and the way in which I might think that it has behaved improperly. I believe that people who have violated the law should be punished, and I believe that people should——

Senator KEATING. No; I am afraid that you misunderstood me. This committee has no power to punish anyone, nor to——

Dr. PAULING. No; I don't accept that. I think that this committee has power to punish people for their political beliefs as expressed in their actions. By calling someone before this committee, he is rendered vulnerable. He may lose his job, if he is a teacher. He may lose his job. He has——

Senator KEATING. Well, Dr. Pauling, this committee has adopted rules which require that if any adverse testimony is going to be brought out with regard to a witness, not only must he be examined in executive session, even the name of the witness must not be made public. He is examined in executive session ahead of time. I concede, as I feel many others would, that committees have made mistakes in the past. I was one of the very first to try to set up rules for investigating committees. I think that it is very important that such rules be established.

This committee has established that rule for the protection of witnesses. And, as you know, it was you yourself who asked that this hearing be held openly. There is no effort, I believe, to punish or to visit reprisals upon you. This committee is seeking information, and I would urge your cooperation with the committee. You are an eminent scientist. You are a man highly regarded in many quarters throughout this country, and I would urge that you cooperate as fully as you feel you can with this committee. I am not the chairman, and I can only express my own views, but I believe I am a little bit of a stickler, perhaps, for fair treatment of the witnesses who appear before us. And I must express my disappointment if you are unwilling to turn over to our committee the information which they feel is necessary in their investigation of this matter.

Dr. PAULING. May I answer, Senator? May I make a statement, Senator Keating?

Senator KEATING. Go ahead.

Dr. PAULING. I feel that I must tell you that I was apprehensive, especially when I learned that the session yesterday—when I learned yesterday morning that the session was to be an executive session. Because I thought, here, according to the rules of the subcommittee, there may be an executive session at which I present testimony and the subcommittee has the right then to introduce a part of this into an open session and to release it without releasing the rest of it.

For example, there might have been an executive session at which I would have testified and might have attempted, as I have today, to explain my beliefs, which are deep ones, and my convictions and the reasons for my actions, to you; and then perhaps it would have ended with my refusing to accept, to conform to the requests for a list of names. If then the subcommittee were to issue to the press, by introducing it into an open session, simply the statement that I had refused to issue this list of names, without any additional material, I feel that an injustice would have been done to me. And I was apprehensive because of this possibility, and for this reason I asked that there be an open meeting. I did not know, of course——

Senator KEATING. I can understand, Dr. Pauling, how you might perhaps have such an impression from some of the conduct of other committees. During my tenure on this committee, anything like that has never been done to my knowledge: release of an unfair portion of testimony. There may have been something deleted for security reasons. But certainly when there is any release of such testimony, there is an opportunity given to the witness involved to appear in open session and add to it, or question anything in that; and I feel sure that would have been done in your case. But, anyway, we are beyond that point.

Dr. PAULING. Yes.

Senator KEATING. I can understand why you asked for the open session, and it is perfectly all right with the committee to have the session.

Dr. PAULING. Yes. Thank you.

Senator DODD. Well, Dr. Pauling, maybe it will help you a little bit if I say to you: I wonder if it has occurred to you that the signatures of petitioners might be very important to—let us say Congress, if Congress was the body being petitioned.

For example, wouldn't you think it would be a matter of interest if a gangster signed a petition with respect to a contemplated statute on the enforcement of a criminal law?

We ought to know who he is.

Wouldn't it be important if someone who had a very special private interest was signing a petition with respect to legislation?

We ought to know who he is.

Does this seem unfair?

Dr. PAULING. No. I agree with you completely, Senator, and you have the names of all the petitioners.

Senator DODD. Well, I thought that the question which we were considering here was whether or not you would give us the signatures.

Dr. PAULING. No. We are not talking about that.

Senator DODD. No? Well, in any event, the point I was trying to make was this, that—and I gather that you have agreed with me—it could be, and frequently is, and I would say ordinarily is, important that we know who the petitioners are.

Dr. PAULING. Yes.

Senator DODD. Now, as I understand it from counsel, he has asked you for letters of transmittal. Is that right?

Dr. PAULING. No.

Mr. SOURWINE. The request that is pending is for the names of the persons who by letter or otherwise transmitted to the doctor the petitions which he says he has in his safe.

Senator DODD. Is that right? Well, wouldn't it be important that the body being petitioned know the identity of the persons who transmitted the petition and the signatures? Perhaps even more than the persons whose names appeared on the petition.

Dr. PAULING. I don't understand why. If you could explain what——

Senator DODD. Well, for the reasons I tried to cite. It would be important, I should think, to a legislative body to know if the representative of a special interest corporate organization had one of its employees circulating a petition with respect to legislation that would vitally affect that corporation. I think we would want to know that this petition had been circulated by an employee of the company having great private interest in this matter. Wouldn't you agree to that?

Dr. PAULING. I am not sure that I understand the case you have described well enough, but I prefer——

Senator DODD. I don't have any particular case. It was a general proposition, rather. However, I don't care to labor it. It's——

Senator KEATING. Well, could I try to clarify that, Mr. Chairman?

Senator DODD. Go ahead.

Senator KEATING. If we got a petition with regard to some legislation from a group of people, wouldn't it be of interest to the Congress, in weighing the validity of that petition and the amount of credence which should be given to it, to know whether it was circulated by the National Association of Manufacturers, or by the AFL-CIO, or by the Farmers Union, or the American Farm Bureau, or some organization of that nature.

Don't you feel that would weigh to some extent?

Dr. PAULING. Well, it may well be that this would weigh. In this case, I have explained that I wrote the petition and circulated it. So we know the answer.

Senator KEATING. As I understand your testimony, you were assisted by a large group of others in the circulation of those petitions. Am I not correct about that?

Dr. PAULING. I wrote to many people, asking them to get signatures. That's right.

Senator KEATING. Well.

Dr. PAULING. And I am going to submit the names.

Senator DODD. Very well.

Senator COTTON. Having asked the doctor two or three questions, I would like to add something to what the chairman and Senator Keating have said.

It's hard for me to believe, for instance, that any Member of the U.S. Senate has ever opposed in a speech, the continuance, the persistent, patient, unremitting continuance of our efforts to put an end to the stockpiling and to the accumulating, and to the use of nuclear weapons by all nations. We all seek an agreement as to the use of nuclear weapons by all nations, so that we can know that we will be safe. I believe in that so clearly, and I am sure that the other members of the committee do, too, that I would sign any petition anywhere. I cannot imagine that any innocent person has anything to fear in signing such a petition. And if there are persons whose motives are not innocent, why then those persons should not be protected.

All of your testimony today has interested me greatly. I have respect for the services that you seek to perform, and your convictions. I must join my colleagues on this committee in saying that I just cannot agree with you. I, too, am disappointed that, first, you feel that this committee is witch hunting; and, secondly, that any innocent person, any patriotic person, any person seeking peace, has anything to fear from a disclosure of their identity—any reason to try to have secrecy preserved as to their activities.

Dr. PAULING. Thank you, Senator.

May I make a statement now which bears upon the question of my having been brought before this committee and its effect upon the safety of the United States as determined by the possibility of a war, a devastating war, or peace. I believe that the efforts that I have been making since 1945 have been of some significance. Part of these efforts have involved the writing of an appeal which became the petition to the United Nations, the writing of letters to people asking them to gather signatures to the petition, the submission of the appeal to President Eisenhower, and then of the petition to the United Nations.

If I were to accede to your to your demands—your requests—I must not call it a demand, it was just a request—if I were to accede to your request to give you the names of these people who might have sent me covering letters with their petition with some names, a number of signatures on these petitions, it would be impossible for me, my conscience—because of my conscience, it would be impossible for me to take part in these activities in the future, because I would not be able to write a similar petition and to write letters to other people and ask them to get signatures. In this way, I would, I believe, entice them into a situation that might cause difficulties for them.

Senator COTTON. Forgive me, but I just want to say this, your cause is an open crusade; it is not a plot.

Dr. PAULING. That is right. It is not a plot. The signatures, the signers of the petition that I wrote are known and you have the names and you can call anyone of them in and ask him, "Did you get signatures or not?" And, "Were you importuned; was any pressure put on you by anybody to sign?" or any question that you want, but it is true—I must tell you that it is true, that if I were to accede to this request, I would have to stop my work.

Senator DODD. Is there anything further?

Very well, Dr. Pauling, I now, on behalf of the Senate Internal Security Subcommittee of the Judiciary Committee of the Senate of the United States, order and direct you to appear on August 9, 1960, at 10 a.m. in room 3234 of the New Senate Office Building, and to bring with you all signatures or purported signatures to the petition presented by you to the Secretary General of the United Nations on January 15, 1958, together with all letters of transmittal by which, or in connection with which, such signatures were transmitted to you or received by you.

Anything further?

The hearing is recessed.

(Whereupon, the hearing was recessed at 3:15 p.m. to reconvene at 10 a.m., August 9, 1960, in room 3234, New Senate Office Building.)

APPENDIX I

EXHIBIT NO. 6

The following document constitutes the enclosure (mimeographed press release including a selected list of signatories) referred to in Mr. Macomber's letter of March 29, 1960, to Chairman Eastland which is printed at page 7.

DR. LINUS PAULING,
3500 Fairpoint Street,
Pasadena, Calif., January 13, 1958.

SCIENTISTS SUBMIT PETITION TO U.N. URGING INTERNATIONAL AGREEMENT TO STOP TESTING NUCLEAR BOMBS

It was announced today by Dr. Linus Pauling that 9,235 scientists of 44 countries, had signed a petition to stop the testing of nuclear bombs by international agreement and that he had presented the petition to the United Nations.

The petition bears the names of thirty-six Nobel Laureates, including Dr. Albert Schweitzer, Bertrand Russell, Lord Boyd-Orr, and others whose names are given on the attached list; also of 101 members of the National Academy of Sciences of the United States, 35 Fellows of the Royal Society of London, 216 members and correspondents of the Academy of Sciences of the U.S.S.R., and leading scientists of other countries. A partial list of signers is attached.

The petition was prepared by Dr. Pauling as an individual scientist and was signed by other scientists as individuals. No organization was involved in the formulation of the petition or the collection of signatures.

The petition resulted from an address on "Science in the Modern World" given in St. Louis in the Chapel of Washington University to the students and faculty of the University on May 15, 1957. In the address Dr. Pauling emphasized that there is essentially unanimous agreement among scientists with experience in the field of the biological effects of radiation as to the general magnitude of these effects, the apparent disagreement between statements made by different scientists being in the main the result of a difference in emphasis. He discussed the damage that is being done by the testing of nuclear bombs and expressed his conviction that a stop to the testing through international agreement would be an effective first step toward averting a cataclysmic war, and that international problems should be solved not by war, but by the application of man's power to reason, through arbitration, negotiation, international agreements, international law. The response to this address was so enthusiastic as to cause him to write the petition on that day.

Within two weeks the signatures of 2,000 American scientists had been obtained, and on June 4, 1957, the statement was submitted to President Eisenhower.

In July Dr. Pauling received a statement of adherence to the petition signed by all of the professors of science in the Free University of Brussels, and similar statements from scientists of other countries. He then wrote to a few scientists in each country, asking that they obtain signatures. In some countries no effort was made to obtain signatures except from a few leading scientists.

Dr. Pauling has stated that he does not believe that this problem of bomb tests and disarmament is one that should be settled by scientists; it is instead one of importance to every person in the world. Scientists, however, have some measure of understanding of the complex factors involved, such as the magnitude of the damage done by fallout radioactivity to the health of human beings and to future generations, and he believes that scientists have the duty of expressing their opinions, in order to help their fellow citizens. He also said that he advocates that an agreement to stop bomb tests be made that would be safe and would benefit all nations and all people equally and not one nation or group of nations preferentially. He expressed the belief that the details of a satisfactory agreement could be worked out by careful negotiation.

The petition reads as follows:

"We, the scientists whose names are signed below, urge that an international agreement to stop the testing of nuclear bombs be made now.

"Each nuclear bomb test spreads an added burden of radioactive elements over every part of the world. Each added amount of radiation causes damage to the health of human beings all over the world and causes damage to the pool of human germ plasm such as to lead to an increase in the number of seriously defective children that will be born in future generations.

"So long as these weapons are in the hands of only three powers an agreement for their control is feasible. If testing continues, and the possession of these weapons spreads to additional governments, the danger of outbreak of a cataclysmic nuclear war through the reckless action of some irresponsible national leader will be greatly increased.

"An international agreement to stop the testing of nuclear bombs now could serve as a first step toward a more general disarmament and the ultimate effective abolition of nuclear weapons, averting the possibility of a nuclear war that would be a catastrophe to all humanity.

"We have in common with our fellow men a deep concern for the welfare of all human beings. As scientists we have knowledge of the dangers involved and therefore a special responsibility to make those dangers known. We deem it imperative that immediate action be taken to effect an international agreement to stop the testing of all nuclear weapons."

Nobel Laureates Among Signers

NOBEL LAUREATES IN PHYSICS

Max Born, Germany
P. A. M. Dirac, Great Britain
W. Heisenberg, Germany
Tang-Dao Lee, China (Resident in U.S.A.)
C. F. Powell, Great Britain
C. V. Raman, India
C. N. Yang, China (Resident in U.S.A.)
Hideki Yukawa, Japan

NOBEL LAUREATES IN CHEMISTRY

K. Alder, Germany
A. Butenandt, Germany
Otto Hahn, Germany
Frederic Joliot, France
Richard Kuhn, Germany
Linus Pauling, U.S.A.
Leopold Ruzicka, Switzerland
N. N. Semenow, U.S.S.R.
R. L. M. Synge, Great Britain
A. W. K. Tiselius, Sweden
Harold Urey, U.S.A.
Adolf Windaus, Germany

NOBEL LAUREATES IN LITERATURE

Bertrand Russell, Great Britain

NOBEL LAUREATES IN PEACE

Lord Boyd-Orr, Great Britain
Albert Schweitzer, France

NOBEL LAUREATES IN PHYSIOLOGY AND MEDICINE

Jules Bordet, Belgium
Henry Dale, Great Britain
Gerhard Domagk, Germany
Joseph Erlanger, U.S.A.
Hans Krebs, Great Britain
Otto Loewi, U.S.A.
Hermann Muller, U.S.A.
W. P. Murphy, U.S.A.
A. Szent-Györgyi, Hungary (Resident in U.S.A.)
Max Theiler, U.S.A.
Hugo Theorell, Sweden
T. Reichstein, Switzerland
G. H. Whipple, U.S.A.

Members of the National Academy of Sciences—Total, 101

C. A. Adams—Emeritus Professor of Engineering, Philadelphia, Pennsylvania.
J. W. Alexander—Professor of Mathematics, Institute of Advanced Studies, Princeton, New Jersey.
P. Bailey—Professor of Pathology and Bacteriology, Neuropsychiatric Institute, Chicago, Illinois.
E. T. Bell—Emeritus Professor of Mathematics, California Institute of Technology, Pasadena, California.
E. G. Boring—Professor of Psychology, Harvard University, Cambridge, Massachusetts.

M. N. Bramlette—Professor of Geology, Scripps Institution of Oceanography, La Jolla, California.
L. Brillouin—Professor of Physics, Retired, New York, New York.
R. A. Brink—Professor of Genetics, University of Wisconsin, Madison, Wisconsin.
A. F. Buddington—Professor of Geology, Princeton University, Princeton, New Jersey.
M. J. Buerger—Professor of Mineralogy and Petrograph, Massachusetts Institute of Technology, Cambridge, Massachusetts.
R. K. Burns—Staff Member, Department of Embryology, Carnegie Institution of Washington, Baltimore, Maryland.
H. E. Carter—Professor of Chemistry, University of Illinois, Urbana, Illinois.
W. W. Coblentz—Consulting Physicist, Washington, D.C.
E. U. Condon—Professor of Physics, Washington University, St. Louis, Missouri.
J. N. Couch—Kenan Professor of Botany, University of North Carolina, Chapel Hill, North Carolina.
G. Dalldorf—Pathologist, New York State Department of Health, Albany, New York.
H. Davis—Director of Research, Central Institute for the Deaf, St. Louis, Missouri.
M. Delbrück—Professor of Biology, California Institute of Technology, Pasadena, California.
M. Demerec—Director of the Department of Genetics, Carnegie Institution of Washington, Cold Spring Harbor, Long Island, New York.
D. M. Dennison—Professor of Physics, University of Michigan, Ann Arbor, Michigan.
Th. Dobzhansky—Professor of Zoology, Columbia University, New York, New York.
J. L. Doob—Professor of Mathematics, University of Illinois, Urbana, Illinois.
L. C. Dunn—Professor of Zoology, Columbia University, New York, New York.
J. T. Edsall—Professor of Biochemistry, Harvard University, Cambridge, Massachusetts.
W. M. Elsasser—Professor of Physics, Scripps Institution of Oceanography, La Jolla, California.
J. Erlanger—Emeritus Professor of Physiology, School of Medicine, Washington University, St. Louis, Missouri.
K. Esau—Professor of Botany, University of California, Davis, California.
L. F. Fieser—Sheldon Emery Professor of Organic Chemistry, Harvard University, Cambridge, Massachusetts.
P. J. Flory—Mellon Institute, Pittsburgh, Pennsylvania.
A. Forbes—Emeritus Professor of Physiology, Harvard Medical School, Cambridge, Massachusetts.
R. M. Fuoss—Sterling Professor of Chemistry, Yale University, New Haven, Connecticut.
J. L. Gamble—Emeritus Professor of Physiology, Harvard Medical School, Cambridge, Massachusetts.
J. Gilluly—Geologist, United States Geological Survey, Denver Federal Center, Denver, Colorado.
R. B. Goldschmidt—Emeritus Professor of Zoology, University of California, Berkeley, California.
J. P. Guilford—Professor of Psychology, University of Southern California, Los Angeles, California.
V. Hamburger—Professor of Zoology, Washington University, St. Louis, Missouri.
L. P. Hammett—Professor of Chemistry, Columbia University, New York, New York.
H. S. Harned—Emeritus Professor of Physical Chemistry, Yale University, New Haven, Connecticut.
M. Heidelberger—Professor of Immunochemistry, Rutgers, The State University, New Brunswick, New Jersey.
J. Holtfreter—Professor of Zoology, University of Rochester, Rochester, New York.
M. K. Hubbert—Chief Consultant, General Geology, Shell Development Company, Houston, Texas.
M. R. Irwin—Professor of Genetics, University of Wisconsin, Madison, Wisconsin.

J. R. Johnson—Todd Professor of Chemistry, Cornell University, Ithaca, New York.
W. P. Kelley—Emeritus Professor of Soil Chemistry, University of California, Berkeley, California.
E. C. Kemble—Professor of Physics, Harvard University, Cambridge, Massachusetts.
R. H. Kent—Ballistic Research Laboratories, Aberdeen Proving Ground, Maryland.
A. V. Kidder—Professor of Anthropology, Cambridge, Massachusetts.
W. Köhler—Psychologist, Swarthmore College, Swarthmore, Pennsylvania.
A. Kornberg—Professor of Microbiology, School of Medicine, Washington University, St. Louis, Missouri.
W. D. Lambert—Professor of Geophysics, United States Coast and Geodetic Survey, Retired, Canaan, Connecticut.
E. M. Landis—George Higginson Professor of Physiology, Harvard Medical School, Boston, Massachusetts.
E. S. Larsen, Jr.—Geologist, United States Geological Survey, Washington, D.C.
S. Lefuchetz—Emeritus Professor of Mathematics, Princeton University, Princeton, New Jersey.
K. P. Link—Professor of Biochemistry, University of Wisconsin, Madison, Wisconsin.
Leo Loeb—Emeritus Professor of Pathology, Washington University, St. Louis, Missouri.
L. G. Longsworth—Member, Physical Chemistry, Rockefeller Institute for Medical Research, New York, New York.
H. J. Lucas—Emeritus Professor of Organic Chemistry, California Institute of Technology, Pasadena, California.
D. A. MacInnes—Professor of Chemistry, Rockefeller Institute for Medical Research, New York, New York.
Max Mason—Mathematician, Retired, Claremont, California.
W. F. Meggers—Physicist, National Bureau of Standards, Washington, D.C.
C. W. Metz—Professor of Zoology, University of Pennsylvania, Philadelphia, Pennsylvania.
S. A. Mitchell—Emeritus Director, McCormick Observatory, University of Virginia, Charlottesville, Virginia.
H. J. Muller—Distinguished Service Professor of Zoology, Indiana University, Bloomington, Indiana.
M. S. Newman—Professor of Chemistry, Ohio State University, Columbus, Ohio.
S. B. Nicholson—Astronomer, Retired, Mount Wilson Observatory, Pasadena, California.
S. Ochoa—Professor of Biochemistry, New York University College of Medicine, New York, New York.
L. Pauling—Professor of Chemistry, California Institute of Technology, Pasadena, California.
A. Petrunkevitch—Emeritus Professor of Zoology, Yale University, New Haven, Connecticut.
J. R. Pierce—Director of Electronics Research, Bell Telephone Laboratories, Murray Hill, New Jersey.
D. Rittenberg—Professor of Biochemistry, College of Physicians and Surgeons, New York, New York.
O. H. Robertson—Emeritus Professor of Pathology and Bacteriology, Stanford University, Stanford, California.
A. S. Romer—Alexander Agassiz Professor of Zoology, Harvard University, Cambridge, Massachusetts.
Karl Sax—Professor of Botany, Harvard University, Cambridge, Massachusetts.
H. I. Schlesinger—Emeritus Professor of Chemistry, University of Chicago, Chicago, Illinois.
P. A. Schaffer—Professor of Biochemistry, School of Medicine, Washington University, St. Louis, Missouri.
H. Shapley—Paine Professor of Astronomy, Retired, Harvard University, Cambridge, Massachusetts.
T. Shedlovsky—Associate Member, Physical Chemistry, Rockefeller Institute for Medical Research, New York, New York.
G. G. Simpson—Curator, American Museum of Natural History, New York, New York.

B. F. Skinner—Professor of Psychology, Harvard University, Cambridge, Massachusetts.
E. E. Snell—Professor of Biochemistry, University of California, Berkeley, California.
G. L. Stebbins—Professor of Genetics, University of California, Davis, California.
N. E. Steenrod—Professor of Mathematics, Princeton University, Princeton, New Jersey.
S. S. Stevens—Professor of Psychology, Harvard University, Cambridge, Massachusetts.
W. H. Stockmayer—Professor of Physical Chemistry, Massachusetts Institute of Technology, Cambridge, Massachusetts.
A. H. Sturtevant—Professor of Genetics, California Institute of Technology, Pasadena, California.
A. Szent-Györgyi—Director of Research, Institute of Muscle Research, Marine Biological Laboratory, Woods Hole, Massachusetts.
K. V. Thimann—Professor of Plant Physiology, Harvard University, Cambridge, Massachusetts.
E. C. Tolman—Professor of Psychology, Retired, University of California, Berkeley, California.
M. A. Tuve—Director, Department of Terrestrial Magnetism, Carnegie Institution of Washington, Washington, D.C.
C. B. Van Niel—Herzstein Professor of Biology, Hopkins Marine Station, Pacific Grove, California.
O. Veblen—Professor of Mathematics, Institute of Advanced Study, Princeton, New Jersey.
M. B. Visscher—Professor of Physiology, University of Minnesota, Minneapolis, Minnesota.
V. F. Weisskopf—Professor of Physics, Massachusetts Institute of Technology, Cambridge, Massachusetts.
F. W. Went—Professor of Plant Physiology, California Institute of Technology, Pasadena, California.
R. H. Wetmore—Professor of Botany, Harvard University, Cambridge, Massachusetts.
R. C. Williams—Professor of Biophysics, University of California, Berkeley, California.
D. W. Wilson—Professor of Physiological Chemistry, University of Pennsylvania, Philadelphia, Pennsylvania.
O. Wintersteiner—Director, Division of Organic Chemistry, Squibb Institute for Medical Research, New Brunswick, New Jersey.
S. G. Wright—Leon J. Cole Professor of Genetics, University of Wisconsin, Madison, Wisconsin.
W. H. Zachariasen—Professor of Physics, University of Chicago, Chicago, Illinois.
O. Zariski—Professor of Mathematics, Harvard University, Cambridge, Massachusetts.

Fellows of the Royal Society of London—Total, 35

J. D. Bernal, Professor of Physics, Birkbeck College, University of London.
M. Born, Emeritus Professor of Natural Philosophy, University of Edinburgh.
Lord Boyd-Orr, D.S.O., M.C., Lately Director-General, Food and Agriculture Organization, United Nations; Brechin, Angus, Scotland.
J. H. Burn, Professor of Pharmacology, University of Oxford.
Sir Wilfrid Clark, Dr. Lee's Professor of Anatomy, University of Oxford.
J. W. Cook, D.Sc., Vice-Chancellor, The University, Exeter.
J. W. Cornforth, D. Phil., Organic Chemist, National Institute for Medical Research, London.
C. A. Coulson, Rouse Ball Professor of Mathematics, Oxford University.
T. G. Cowling, Professor of Applied Mathematics, University of Leeds.
E. G. Cox, Professor of Inorganic and Structural Chemistry, University of Leeds.
H. S. M. Coxeter, Professor of Mathematics, University of Toronto.
Sir Henry Dale, O.M., G.B.E., Formerly Director of the National Institute for Medical Research, London.
P. A. M. Dirac, Lucasian Professor of Mathematics, University of Cambridge.
H. M. Fox, Emeritus Professor of Zoology, University of London.
J. B. S. Haldane, Weldon Professor of Biometry, University College, University of London.

W. K. Hayman, Professor of Pure Mathematics, Imperial College of Science and Technology, London.
G. Herzberg, D.Sc., Director, Division of Pure Physics, National Research Council of Canada, Ottawa.
D. M. C. Hodgkin, Reader in X-ray Crystallography, Oxford University.
J. S. Huxley, D.Sc., London.
P. Kapitza, Ph.D., Institute for Physical Problems, Moscow, U.S.S.R.
H. A. Krebs, Whitley Professor of Biochemistry, University of Oxford.
Dame Kathleen Lonsdale, D.B.E., Professor of Chemistry, University College, London.
S. M. Manton, Reader in Zoology, University of London King's College.
D. M. M. Needham, Sc.D., Biochemist, Cambridge University.
J. Needham, Sc.D., Sir William Dunn Reader in Biochemistry, University of Cambridge.
A. C. Offord, Professor of Mathematics, Birkbeck College, University of London.
F. A. Paneth, Ph.D., Director of the Max Planck Institut für Chemie, Mainz, Germany.
M. F. Perutz, Lecturer in Biophysics, University of Cambridge, and Honorary Director of the Medical Research Council Unit for the Study of the Molecular Structure of Biological Systems.
N. W. Pirie, Head of the Biochemistry Department, Rothamsted Experimental Station, Harpenden.
R. V. Pitt-Rivers, Ph.D., Department of Biochemistry, National Institute for Medical Research, London.
M. Polanyi, Professor of Social Studies, University of Manchester.
C. F. Powell, Melville Wills Professor of Physics, University of Bristol.
Sir Venkata Raman, National Research Professor of Physics, Bangalore, India.
The Earl Russell, Penrhyndeudraeth, Merioneth, North Wales.
F. Sanger, Ph.D., Member of the staff of the Medical Research Council; Sir William Dunn Institute of Biochemistry, Cambridge.

Signatures of Australian Scientists—Total Number, 8

ADELAIDE

L. H. May, Univ. Lecturer
A. Kerr, Univ. Lecturer
J. W. Holmes, Scientific Res.

CANBERRA

Bart J. Bok, Astronomer

HOBART (TASMANIA)

Ernest E. Kurth, Prof, of Chem.
N. G. Marinos, Univ. Lecturer
T. J. Marshall, Scientific Res.

MELBOURNE

Raynor C. Johnson, Master of Queen's College

Signature of Austrian Scientist—Total Number, 1

WIEN

Dr. Robert Stiebinger, University Professor

Signatures of Belgian Congo Scientists—Total Number, 6

LEOPOLDVILLE

Elliott, F. G., Dr. Sc., S.J. Prof.
Charette, J. J., D.Sc., Professor
Bouillon, Albert, D.Sc., Prof.
Vincent, J., M.D., Professor
Bartholome, Paul, Ph.D., F.G.S. Professor
Van Coillie, Roger, D.Sc., Prof.

Signatures of Belgium Scientists—Total Number, 41

BRUSSELS

Jules Bordet, Professor, Physiology

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L. de Brouckere
Paul Brien
Herbert Chantrenne
J. Geheniau
J. F. Cox
F. H. van den Dungen
Paul Janssens
G. Bontemps
A. Spitaels
M. Mandel
Verstaeten
A. Jenard
R. Van Geen
G. Sylin
C. Stochmans
R. Pankowski
G. Vanderhaeghe
J. Sacton
X. Hubaut
S. Deutsch
Georges Papy
Jean Brachet
Francine Vanderhaeghe
W. L. De Keyser
P. Baudoux
R. Debever
Ph. Ronsmans
J. Hougardy
J. Jedwab
Pierre Decroly
M. Demeur
A. Van Der Schrick
F. Englert
T. DeVooght
Y. De Keghel
J. Kestens
M. Rene
R. Bastin
M. Huyberechts
G. Mayne

Signatures of Brazilian Scientists—Total Number, 92 [sic]

CURITIBA

Newton Freire-Maia, Geneticist
Ademare Freire-Maia, Geneticist
Danuneia Urban, Zoologist
Bernadete D. Lucas, Zoologist
Ralph J. G. Hertel, Botanist
Anzelo Molfi, Parasitologista
Oscar Palmquist, Bacteriologist
Milton Giovannoni, Pathologist
Demosthenes M. Sarmento, Virologist
Oswaldo S. Fantaura, Fitopatologia
Sileno Grillo Soares, Entomologist
Azor de Oliveira Cruz, Physiology
Piad Salamuni, Geologist
Antonio Quelce Salzado, Geneticist
Lia Villar de Paucena, Zoologist
Ayrtondellatt, Botanist
Astolpho Macedo Souza, Virologiota
S. Schlog, Bacteriologist
Orlando Hecke, Bacteriologist
Ruy Santos, Pathologist
Lycio Grein de Castro Vellozo, Bacteriologist
Mario Voronski, Fitopatologia
C. W. Bautz, Biochemist

PORTO ALEGRE

Antonio Rodrigues Cordeiro, Genetics
Francisco M. Salzano, Geneticist
Casemiro V. Tondo, Biophysicist
Guiomar R. Bier, Genetics
Loya Ceyus, Geneticist
Luiz Pilla, Chemist
Antonio B. J. Batista Todesco, Radiochemist
Aufueris Cauduro, Geologia & Paleontologia
Celso Paulo Jaeger, Zoology
Falavio Serogoy, Chemist
Alarich R. Schultz, Botanist
Helga Winge, Genetics
Jorge Alberto Petersen, Genetics
Vena Marques, Geneticist
Ary Nunes Tietböhl, Prof. Math.
E. C. Jaeger, Genetics
Yvonne Sanguinetti, Micropaleontologia

SALVADOR

Cora de Moura Pedrura, Prof. de Biologia
Mary Santos Silva, Prof. Geographia
F. Chalus, Prof. Zoologia
Huys Barreto, Assist. Radiologia
Lucy Isabel Peisiglo, Instr. de Biologia
S. de Azevedo, Antropologia
Aristidus da Silva Gomes, Prof. de Mathematics
Edith M. da Abeu, Prof.
C. Basto, Assist. Sci., Neurol.
Julieta Guinarates, Assist. Zoologio
Wilma N. Piuto, Assist. Voluntaria de fisiologial Animal
C. M. Curvello Guma, Instr. Paleontologia

PIRACICABA

Erico R. Nobre, Economista
Ronaldo N. Barbosa da Silva, Eng. Agronomo
Warwick E. Kerr, Geneticista
Jose T. do Amaral Gurgel, Geneticista
J. Bergamin, Entomologia
Moacyr C. do Brasil Sobro, Quimica Agricola
Henrique Paulo Haag, Bioquimica
Alcides Carvalho, Eng. Agr.
Francisco F. de Toledo, Eng. Agr.
Celso L. Moraes, Zootecnia
Rodolpho Camargo, Microbiologista
J. de Mello Aires, Eng. Agr.
Jayme Rocha de Almeida, Diretor I. Z.
Ferdinando Galli, Eng. Agr.
F. Pimentel Gomes, Matematica e Estatistica
Z. C. Maranhao, Entomologia
Francisco A. M. Mariconi, Zoologia
Luiz Gonzaga E. Lordello, Zoologia
Alcides G. Zagatto, Economista
Marco A. G. Cecchini, Chemistry
Ernest Giesbrecht, Chemistry
Giuseppe Calento, Chemistry
Geraldo Vicentini, Chem.
Renato G. Cecchini, Chem.
William G. R. de Camargo, Crystallography
Florestan Fernandes, Sociology
Candido L. da Silva Dias, Math.
Antonio Soares Amora, Philology
J. Cruz Costa, Philosophy
Milton da Silva Rodrigues, Statistis.
Elly Silva, Physics
A. Brito da Cunha, Biology
M. Rocha e Silva, Physiology
R. L. Araujo, Biology
J. R. Meyer, Biology
O. Sala, Physics
C. B. de Lyra, Math.
Alexandre A. Martins Rodrigues, Mathematics
Omar Catunda, Mathematics
F. G. Brieger, Genetica
A. Cervellini, Fisica
Jose Soubine Sobrinho, Eng. Agronomo
Almiro Blumenschein, Geneticista
E. Malavolta, Bioquimica
Otto J. Crocomo, Bioquimica
Antonio Trivelin, Zootecnica
Eujandir de Lima Orsi, Eng. Agronomo
Walter R. Jardim, Zootecnia
Sinval G. Filho, Zootecnia
Sebastiana Joly, Microbiologista
Helcio Falanghe, Eng. Agr.
Rahme Nelly Neder, Eng. Agr.
Jesus Marden dos Santos, Fisica e Meteorologia
Junto Moretti Filho, Engenharia e Topografia
Domingos Gallo, Entomologia
S. de Toledo Piza, Jr., Zoologia
Adiel Paes Leme Zamitte, Zoologia
Felisberto Pinto Monteiro, Biologista
Luiz R. M. Pitombo, Chemistry
Eurice de Carvalho Filho, Chem.
Marcello de Moura Campos, Chem.
Madelaine Perrier, Chem.
Jose Moacyr Vianna Coutinho, Mineraology
Paschoal Senise, Chemistry
Erasmo G. Mendes, Physiology
Fernando de Azevedo, Sociology
Armando Tonioli, Philology
Aroldo de Azevedo, Geography
Jose Goldemberg, Physics
Reynaldo Saldanha de Gama, Mineralogy
Adolpho Martins Penha, Biology
Eduardo Navajas, Biology
J. Pinto da Fonseca, Biology
P. Mello Freire, Biology
L. H. Jacy Monteiro, Math.
Chaim S. Honig, Mathematics
Edison Farah, Mathematics
Siamo Mathias, Chemistry

RIO DE JANEIRO

Americo Grosemann, Eng. Agronomo, Professor
Fernando Costa Pereira
Edmundo S. Dositto
Arnaldo G. Medeiros
Walter Augusto G. Braun
Dalmo C. Giasuitti
Evandro Ferray Duarte
Alberto de Figueirido Rentoado
Romulo P. Goncalves
Lenita Sobral do Nascimento Duarte
Johanna Dobereiner

RIO GRANDE

S. A. Kremer Luz, Eng. Agronomo
Gilluito F. Fonseca, Eng. Agronomo
O. P. Grokeybia, Eng. Agr.
Nelson S. Peters, Eng. Agron.
Floriano F. Gumares, Eng. Agr.
Padre Jose Pereira de Sousa, Professor

SAO PAULO

Maro Schönberg, Physicist
Manoel Becker, Eng. Agronomo
Francisco De Paula Assis, Med. Veterinario
Alfonso Tundisi, Eng. Agronomo
Mario Ithamar Montagnini, Eng. Agronomo
Jorge Macario de Mello
Henrique F. Raimo, Med. Veterinario
Geraldo Lemeda Rocha, Eng. Agronomo
Leovigildo P. Jordao, Med. Veterinario
Jose Marques dos Reis, Veterinario
Dinival Martinelli, Eng. Agronomo
Luiz Paulin Neto, Eng. Agronomo
Baldomero Wey Garcia
Pedro F. Gouveia, Med. Veterinario

RECIFE

Ricardo Carvalho Ferreira, Prof., General and Inorganic Chemistry

Signature of Bulgarian Scientist—Total Number, 1

SOFIA

Prof. Kiril Bratanov, Secretary of the Union of Scientific Workers of Bulgaria.

Signatures of Ceylonese Scientists—Total Number, 27

COLOMBO

Eric L. Fonseka, Prof. Chem.
A. W. Mailvaganam, Prof. Physics
B. L. T. de Silva, Prof. Bot.
W. Fernando, Prof. Zoology
G. Eliezer, Prof. Math

22 additional signatures of scientists working in the above institutions.

Signatures of Colombian Scientists—Total Number, 34

BOGOTA

Enrique Perez Orbalaez, Botanica aplicada
Carlos Vasquez, Hidiografo
Luis Patino Camargo, Medico
Hernando Franco Sanchez, Ingeniero
Guillermo Munoz Rivas, Laboratorista
Jorge Bejarano, Medico
Augusto Gast Galvis, Medico
Luis Maria Murillo, Entomologo
Dario Rozo M., Ingeniero
Alfredo D. Bateman, Ingeniero
Gustavo Perry, Prof. Matematicas
Juan Jacobo Munoz, M.D.
Fernando Rosas, M.D.
Tergio Elias Ortiz, Dr. en Cencias Sociales
Francisco Llenas, Ing. Civil
Alfred Artimduaga, M.D.
Jose Ignacio Ruiz, Geodesta
D. Daverde, Ingeniero Civil
A. M. Barriga Villalba, Quimico
Ernesto Guhl, Geografo
Daniel Mesa Bernal, Agronomo
Carlo Federici, Ingeniero
Luis Lopez De Mesa, Medico
Kalman C. Mezey, Medico
Calixto Torres Umana, Medico
Sven Zethelius, Ingeniero
Leopoldo Guerra Portocarrero, Prof. Matematicas
Egon Lichtenberger, M.D.
Horacio Parra, M.D.
Juan Dugual, Oectropologo
Ondre Brianolleros, M.D.
Guillermo U. Valla, M.D.

Signatures of Czechoslovakian Scientists—Total Number, 259

PRAHA

Prof. Dr. Jaromir Krecan, Dentistry
Prof. Dr. Prosek, Social med.
Prof. Dr. Karasek, Physiology
Prof. Dr. Sula, Chemistry
Prof. Dr. Precechtel, Otorhinolaryngology
Prof. Dr. Herfort, Interne med.
Prof. Dr. Sekla, Biology
Prof. Dr. Horejsi, Interne med.
Prof. Dr. Henner, Neurology
Prof. Dr. Frankenberger, Histology and embryology
Prof. Dr. Borovansky, Anatomy
Prof. Dr. Lukas, Gyn and obstetries
Prof. Dr. Vondracek, Psychiatry
Prof. Dr. Capek, Physiology
Prof. Dr. Seemann, Phoniatries
Prof. Dr. Teissinger, Social med.
Prof. Dr. Jaros, Orthopedies
Prof. Dr. Zahradnicek, Orthopedies

PRAHA—continued

Prof. Dr. Kacl, Chemistry
Prof. Dr. J. Jedlicka, Phtiseology
Prof. Dr. Klaus, Gyn. and obstet.
Prof. Dr. Brdlik, Pediatries
Prof. MUDr. Helena Raskova, Vedouci farmakolog. ustavu
Prof. Dr. Charvat, Interne med.
Prof. Dr. Jirasek, Surgery
Prof. MUDr. Josef Svejcar, Prednosta I. detske
Prof. MUDr. Jaroslav Prochazka, Prednosta inf.
Prof. MUDr. Vladimir Jedlicka, Prednosta interni
Prof. Dr. Divis, Surgery
Prof. Dr. Svab, Radiology
Prof. Dr. V. Jedlicka, Path. anatomy
Prof. Dr. Kral, Physical culture
Prof. Patocka, Microbiology
Prof. Dr. Kurz, Ofthalmology
Prof. Dr. Hübschmann, Dermatovenerology
Prof. Dr. Prusik, Interne med.
Prof. Dr. Lenoch, Balneology and physiatries
Prof. Dr. Hepner, Path. phys.
Prof. Dr. Blazek, Pediatries
Prof. Dr. David, Surgery
Prof. Dr. J. Netousek, Int. med.
Prof. Dr. Vitek, Neurology
Prof. Dr. Richter, Chemistry
Prof. Dr. Gawalowski, Dermatovenerology
Prof. Dr. Cancik, Hygiene
Prof. Dr. Pavrovsky, Surgery
Prof. Dr. Vychytil, Pediatries
Prof. MUDr. Rudolf Peter, Prednosta pediatricko chirurgicke
Prof. MUDr. Josef Houstek, Prednosta II. detske
Prof. MUDr. Richard Foit, Prednosta int. propedeutiky
Prof. MUDr. Kamil Kubat, Prednosta propedeut. ped.
Prof. MUDr. Frant. Lenoch, Prednosta fysiatr. a balneol. ustavu

PRAGUE

Akademik Prof. Frantisek Burian
Prof. MUDr. Edvard Knobloch
Prof. MUDr. Jan Konopik
Prof. MUDr. Jan Sebek
Prof. Dr. Vladimir Hlavacek
Prof. MUDr. Josef Skladal
Prof. MUDr. Jiri Syllaba
Prof. MUDr. Frantisek Blaha
Prof. MUDr. Emerich Polak
Prof. MUDr. Karel Raska
Prof. MUDr. Vratislav Jonas
Prof. MUDr. Jirina Cizkova
Prof. MUDr. Josef Janku

BRNO

Prof. D. Varysek, M.D. Ophth.
Prof. Dr. M. Hyfa, Med.
Prof. Dr. V. Tomanec, Microbiology
Prof. Dr. B. Frejka, Orthopaedic
Prof. Dr. V. Kher, Pathology
Prof. MUDr. F. Stepl
Prof. Dr. T. Svejde, Pathology
Prof. Dr. J. K. Podlaha, Surgery
Prof. Dr. K. Popek, Neurology
Prof. Dr. J. Poleck, Int. Med.
Prof. Dr. V. Kurtz, Physiology

PLZEN

Prof. Dr. R. Bures
Prof. Dr. Zdenek Köcher
Prof. Dr. Rudolf Knobloch
Prof. Dr. Vlastimil Resl
Prof. Dr. Vladimir Mikolas
Prof. Dr. Josef Vanek
Prof. Dr. Bohumil Krajnik
Prof. Dr. Karel Bobek

OLOMOUC

Prof. Dr. Jaromir Hrbek, Med. Sc., Rector
Prof. Dr. Pavel Lukl, Med.
Prof. Dr. Gustav Lejhanec, Med. Vice-Dean
Prof. Dr. Jan Kabelik, Med. Sci.
Prof. Dr. Miloslav Matousek, Med., Vice-Rector
Prof. Dr. Vladislav Rapant, Med. Sci.

HRADEC KRALOVE

Milos Klima, M.D., Prof. Ophthalmology
Jaroslav Nosek, M.D., Prof. Med. Chem.
Rudolf Petr. M.D., Prof. Neurosurgery
Rudolf Vavra, Dr. M. Sc., Prof. Pathol. Physiology
Bretislav Janousek, M.D., Prof. Dermatovenerology
Jaroslav Melka, M.D., Prof. Phys.
Jaroslav Prochazka, M.D., Prof. Surgery
Miroslav Sercl, Dr. M. Sc., Prof. Neurology
Jaroslav Lichtenberg, M.D., Prof. Surgery
Jan Osanec, M.D., Prof. Health Organization

HRADEC KRALOVE—continued

Jan Rehor, Dr. M. Sc., Prof. Med.
Vlastimil Vrtis, Sc. D., Prof. Histology, Embryology
Stanislav Krakora, M.D., Prof. Psychiatry
Josef Pazourek, Dr. M. Sc., Prof. Obs. and Gyn.
Vilem Santholzer, M.D., Prof. Physics.
Jaroslav Vavrda, M.D., Prof. Orthopaedic Surgery

BRATISLAVA

Prof. Dr. Zigmund Krizan, Prednosta ustavu lek. fyziky
Prof. Dr. Anton Gala, Prednosta ocnej
Prof. Dr. Herman Krsek, Prednosta ustavu sudneho
Prof. Dr. Svetozar Stefanik, Prednosta I. zenskej a porodnickej
Prof. Dr. Mikulas Ondrejicka, Prednosta I. internej
Prof. Dr. Vladimir Haviar, Prednosta II. internej
Prof. Dr. Gejza Bardoz, Prednosta ustavu experimentalnej patologie
Prof. Dr. Juraj Anatal, Prednosta ustavu fyziologie
Prof. Dr. Juraj Hensel, Prednosta fyziatrickej
Prof. Dr. Jan Cervenansky, Prednosta ortopedickej
Prof. Dr. Frantisek Klein, Prednosta ustavu patologickej anatomie
Prof. Dr. Teofil Niederland, Prednosta III. internej
Prof. Dr. Konstantin Carsky, Prednosta I. chirurgickej

140 additional signatures of scientists working in the above institutions.

Signatures of Canadian Scientists—Total Number, 23

SASKATOON

R. Fischer, Ph.D., Lecturer in Biochemistry
Leon Katz, Professor Physics

WINNIPEG

Benjamin G. Hogg, Assoc. Prof. Physics
M. E. Kettner, Asst. Prof. Physics
Fred M. Kelly, Assoc. Prof. Physics

TORONTO

H. S. M. Coxeter, Professor Math

OTTAWA

G. Herzberg, Physicist

HAMILTON

A. T. Hutcheon, Chemist
V. A. Vyas, Chemist
K. A. H. Adams, Chemist
Eileen Betts, Chemist
B. C. Young, Physicist
I. R. Williams, Physicist
Wm. J. King, Physicist
A. B. McLay, Physicist
C. B. Cragg, Chemist
J. S. Norman, Chemist
W. A. Harrison, Chemist
W. R. Song, Chemist
E. Hall, Physicist
R. H. Goodman, Physicist
R. G. Summerfill, Physicist
M. W. Johns, Physicist

Signatures of Chinese Scientists—Total Number, 3

PEKING

Wu Yui-Hsun, Academy of Sciences
Chen Ning Yang, Professor Princeton, N.J.
Tsung-Dao Lee, Professor, Physics, New York

Signatures of Danish Scientists—Total Number, 3

COPENHAGEN

Mogens Pihl, Professor
Tage Kemp, Professor, Dr. Med.
Heinz Holser, Professor

Signatures of French Scientists—Total Number, 65

PARIS

Prof. Frederic Joliot-Curie.

ORLEANS

Prof. J. Laurent, Prof. de Lycee.

BOULOGNE-BILLANCOURT (SEINE)

Olivier Pozzo di Borgon, Inspecteur Generale de l'Instruction Publique.

TOULOUSE

Ch. Fert, Faculte des Sciences, l'Universite.

MONTPELLIER; UNIVERSITY OF MONTPELLIER

M. Maury, Prof.
M. Mirouze, Prof. Med.
M. Serres, Prof. Med.
M. Joyeux, Prof. Med.
M. Boucomont, Prof. Med.
M. Bouyard, Chef de Travaux
M. Levy
M. Gros, Prof. Med.
M. Fourcade, Prof. Med.
M. Boulet, Prof. Med.
Mlle. Labraque-Bordenave
M. Rioux, Prof. Med.
M. Pages, Prof. Med.
M. Etienne, Prof. Med.
M. Emberger, Directeur, l'Institut de Botanique
M. Salvinien, Prof. de Chimie-Physique
M. Lafont, Chef de Travaux Pratiques
Mlle. Tuzet, Prof. de Zoologie
M. de Ceccaty, C.N.R.S.
M. Roux, C.N.R.S.
M. Tares, C.N.R.S.
M. Gaufres, Assist. de Chimie
M. Meffroy-Biget, C.N.R.S.
M. J. P. Kahane, Prof. de Math.
M. Marres, Prof. de Geographie
M. Brunel, Prof.
M. Jammes, Assistant
M. Combes, Assistant
M. Jaulmes, Prof.
M. Mestre, Chef de Trav. Pratiques
Mlle. Cordier, Chef de Travaux Pratiques
M. Milhau, Prof.
M. Betoulieres, Prof. Med.
M. Passouant, Prof. Med.
M. Loubatieres, Prof. Med.
M. Lapeyre, Prof. Med.
M. Luzieres, Prof. Med.
M. Roux, Prof. Med.
M. Jean, Prof. Med.
M. Cazal, Prof. Med.
M. Carrere, Prof. Med.
M. Harant, Prof. Med.
M. Roux, C.N.R.S.
M. Cristol, Prof. Med.
M. Seintein, C.N.R.S.
M. Euzet, Chef de Travaux Pratiques
M. Rabinovitch, Prof. de Physique
M. Mozeran, Chef de Travaux Pratiques
M. Moreau, Prof. de Math.
M. Duran, C.N.R.S.
M. Rivieres, C.N.R.S
M. Bertran, C.N.R.S.
M. Combet, Chef de Travaux Pratiques
M. E. Kahane, Prof. de Chimie-Biologique
M. Jourda, Doyen, Faculte des Lettres
M. Imbert, Assistant
Mlle. Martin, Prof.
M. Jannoray, Prof.
M. Canals, Doyen, Faculte de Pharmacie
M. Dolique, Prof.
M. Harnelle, Assist.

Signatures of Egyptian Scientists—Total Number, 236

CAIRO

Professor Unit Director, National Research Centre:
A. Riad Tourky
Aly Hassan
Moustafa M. Hafez
Ibrahim Ragab Fahmy
Mohamed R. Madwar

Professor (Faculty of Med.) Cairo University:
N. A. H. Khalal
M. Ibrahim
M. Talaat
A. K. Abdel Khalik
A. A. Tarkham
S. A. Effat
A. Mehriz
A. M. El Batrawy
M. S. El Ridi
A. Samy
Y. H. Guinena
M. Hashem
M. K. El Sherbini
H. Seif El Nasr
M. A. Soliman
M. S. El Hakim
R. M. Fawzy
A. M. El Sharkawi
A. A. Handousa
M. M. Gaafar
A. Y. Salama
Shafic Shalaby
M. A. Attiah

CAIRO—continued

Professor (Faculty of Med.) Cairo University—Continued
A. El Toubgy
I. S. Hilmy
Khalil Mazhar
M. El Diwany
A. F. Ragab
S. Abdou
M. A. H. El Mahdy
A. A. Abou Zikry
A. M. T. Abdel Bar
M. Abou Seif
M. L. Abdel Samieh
A. H. Mousa

Professor (Faculty of Agriculture) Cairo University:
A. S. Hassan
A. K. El-Ghamrawy
A. H. Fahmy
A. M. Ghoneim
A. H. Rouby
A. Badr El Din
H. A. El-Tobgy
A. Hussein
A. K. Azab
A. A. El Toubgy
M. B. Ahmed
A. Zein El Abdieen
Y. Y. Abd El Malek
M. M. El Azzouni
H. M. Hamdy

Professor (Faculty of Science) Cairo University (Giza):
M. Mursi Ahmed
M. R. El-Tonbi
J. A. M. Farag
N. M. Shukri
F. Khalil
Mahmoud Hafez
M. A. Meloak
Raouf Doss
O. Hammad

Professor (Faculty of Science) A'in Shams University:
A. H. Montasir
M. Hanna
M. T. Elsayed
Z. M. Ibrahim
M. Haseeb
O. M. Hilal
K. Mansour
R. I. Razouk
M. I. Faris
A. H. Elhousainy
E. A. Eisa
F. G. Baddar

Professor (Faculty of Agriculture) A'in Shams University:
A. Abdel Ghaffar Saleh
Abdel Rahman Kadry
Murad R. Grace
Kamal Hassan
Soliman El Hakim

Professor (Faculty of Medicine) A'in Shams University:
Dr. A. M. Soliman
Dr. A. Helmy
Dr. P. Ghalioungi
Dr. Y. A. Sherif
Dr. M. M. El-Sadr
Dr. A. Ammar
Dr. F. R. Yousri
Dr. H. F. Nagaty
Dr. S. M. Aidaros
Dr. S. H. Abdel-Malek
Dr. I. Abou Senna
Dr. A. H. Mohamed
Dr. W. Bakhoum
Dr. M. A. El-Okbi
Dr. S. El-Kholy
Dr. M. Z. Souidan
Dr. A. Mohamed

138 additional signatures of scientists working in the above institutions.

Signatures of German Scientists—Total Number, 140

STUTTGART

Th. Förster, Prof.
H. Aldinger, Prof.
W. Hamann, Prof.
U. Dehlinger, Prof.
A. Arnold, Prof.
F. Seel, Prof.
J. Goubeau, Prof.
H. Bredereck, Prof.

MÜNCHEN

Karl v. Frisch, Univ. Professor
W. Rollwaeen, Prof. Exp. Physiol.
Herman Kahmann, Univ. Prof.
A. Wenzl, Prof. Philosophie
A. Fressler, Prof. Exp. Pzik.
Ruth Beutlor, Univ. Prof.
Fritz Bopp, Prof. Exp. Pzik.

MUNICH

Dr. Georg Joos, Prof.

KARLSRUHE

Karl Wirtz, Prof. Physics

HEIDELBERG

Kopfermann, Hans, Prof.
Karl Freudenberg, Prof. Chem.
Kl. Schäfer, Prof. Chem.
O. Th. Schmidt, Prof. Chem.
Kienle, Hans, ord. Prof. für Astronomie
Reinhard Hast, Prof. Chem.
Margot Becke-Goehring, Prof. Chem.
G. Wittig, Prof. Chem.

MARBÜRG LAHN

Walcher, Wilhelm, Univ. Prof.
Huster, Erich, Univ. Prof.
Beckes, Erwin, Univ. Prof.
Vogt, Ekhart, Univ. Prof.
Wolter, Hans, Univ. Prof.

MAINZ

Herbert A. Stuart, Prof. Physik.
Jerchel, Dietrich, Apl. Prof. Chemie
Grunsky, Helmunt, Prof. Math.
Müller, Henning, Prof. Physics
Schaller, Friedrich, Prof. Zool.
Schubert, Gerhard, Prof. Physics
Neümer, Walter, Prof. Math.
Shulz, S. V., Prof. physik. chem.
Mispin, Hans, Prof. Zoology
Wellek, Albert, Prof. Psychologie
Dabelow, Adolf, Prof. Anatomie
Rochelmeyer, Hans, Prof. Pharmazie
Horner, Leopold, Prof. Chem.
Kern, Werner, Prof. Org. Chem.
Furch, Robert, Prof. Math
Forlke, Horst, Prof. Geologie
Bechert, Karl, Univ. Prof. Physics
Kämmerer, Hermann, Prof. F. Org.
Wilsner, Marnow, Prof. for systematische Theologie
Baier, Ernst, Prof. Mineralogie
Weber, Hans, Prof. Botanik
Gunn, Henry, Prof. Ther. Chem.
Schwidetzky, Ilse, Prof. Anthropologie
Höhn, Karl, Prof.

HEIDELBERG

Richard Kuhn, Prof. Dr.

GÖTTINGEN

Otto Hahn, Prof. Dr.
Prof. G. Dumagk, Physicist
Max Born, Prof. Em.

KÖLN

Prof. Dr. K. Alder

DARMSTADT

Helmut Witte, Prof.
K. Marguerre, Prof.
Adolf Küntzel, Prof.
Curt Schmieden, Prof.
Otto Scherzer, Prof.
Hane König, Prof.
Ulrich Franck, Prof.

Eighty-one additional signatures of scientists working in the above institutions.

Signatures of Ghana Scientists—Total Number, 1

ACCRA

A. Bekoe, Crystallographer

Signatures of British Scientists—Total Number, 304

LONDON

Walter Kurt Hayman, F.R.S., Prof. Math.
Kathleen Lonsdale, Prof. Chem.

OXFORD

C. A. Coulson, Prof. Math.
Hans A. Krebs, Univ. Prof.

CAMBRIDGE

C. D. Broad, Prof. Emeritus of Moral Philosophy
Max Perutz, Prof. Chem.

OXFORD

J. H. Burn, Prof. Pharmacology

LEEDS

E. G. Cox, Prof. Chem.
J. Dainton, Prof. Chem.

295 additional signatures of scientists working in the above institutions and in other cities and foreign countries.

Signature of Greek Scientist—Total Number, 1

ATHENS

A. A. Christomanos, Prof. Biochem.

Signatures of Indian Scientists—Total Number 535 [sic]

ALLAHABAD

K. Baneja, Prof. Physics

MADRAS

V. S. Ramanujam, Prof. Physics
B. G. L. Swamy, Prof. Botany
C. N. Ramachandran, Prof. Physics
Major S. Parthasarathy, Prof. Psych.
T. R. Govendachari, Prof. Chem.
K. N. Menon, Prof. Organic Chem.
G. S. Laddha, Dir. A. C. College of Technology
A. P. Madhavan Nair, Prof. Chem.
P. G. Dowie, Prof. Geology
J. Ranganathan, Prof. Statistics
P. S. Sarma, Prof. Biochem.
P. V. Abdurahiman, Prof. Math.
R. Aiyaswamy, Prof. Math.
P. R. J. Naidu, Prof. Geology
V. G. Jaynrewan, Prof. Eng.

BANGALORE

P. Ramaswami, Prof. Consulting Research Chem.
B. R. Seshacher, Prof. Zoology
L. Rama Rao, Prof. Geology
C. S. Ghosh, Prof. Elec. Eng.
E. K. Ramaswami, Prof. Mech. Eng. (retired)
Dr. S. Rama Swamy, Prof. Physics
A. Venkatarao Telang, Prof. Physics
B. Dasannacharya, Prof. Physics

DIST. BIRBHUM, WEST BENGA

Satyendra Nath Bose, Vice-Chancellor

BARODA

D. V. Gogate, Prof. Physics

CALCUTTA

A. C. Chakravarti, Prof. Physics (retired)
A. Saha, Prof., Inst. of Nuclear Physics
S. N. Mukherjee, Prof. Phys. Chem.
N. M. Basu, Prof. Physiology (retired)
P. B. Sarkar, Prof. Chem.
B. K. Bhattacharyya, Prof. Chem.
A. K. Majumdar, Prof. Chem.
N. R. Sen, Prof. Applied Math. Dean, Faculty of Science
S. R. Palit, Prof. Chem.
H. L. Roy, Emeritus Prof. Chem. Eng.
S. D. Chatterjee, Prof. Physics
P. Ray, Dir. Indian Assoc. for Cultivation of Science
P. K. Bose, Prof. Chem.
S. K. Mitra, Emeritus Prof. Physics
B. D. Nag Chowdhuri, Dir. Inst. of Nuclear Physics
B. C. Guha, Prof. Chem.
A. Bose, Prof. Physics
S. C. Bhattacharyya, Prof. Mech. Eng.
P. C. Dutta, Prof. Chem.
D. Basu, Prof. Physics
S. Deb, Prof. Geology
N. N. Dasgupta, Prof. Biophysics

GAUHATI

B. Sanjiva Rao, Prof. Chem.

DELHI

T. R. Seshadri, Prof.
R. P. Mitra, Prof.

HOSHIARPUR

S. M. Mukherji, Prof. Chem.
B. M. Anand, Prof. Physics
G. B. Singh., Prof. Chem.
R. L. Chitkara, Prof. Chem.
Vishwa Nath, Prof. Zoology

HYDERABAD

N. V. Subba Rao, Prof. Chem.
S. N. Singh, Prof. Zoology
R. Satyanarayana, Prof. Physics

WALTAIR

C. Mahadevan, Prof. Geology
G. Gopala Rao, Prof. Chem.
C. Venkatarao, Prof. Chem. Eng.
Swami Jnanananda, Prof. Nuclear Physics
J. Venkateswarlu, Prof. Botany
K. Nagabhushanam, Prof. Statistics
S. T. Krishnaswami, Prof. Applied Physics
P. N. Ganapati, Prof. Zoology
T. Venkatarayudo, Prof. Physics
S. Minakshisundaram, Prof. Math.

468 additional signatures of scientists working in the above institutions.

Signatures of Israeli Scientists—Total Number, 54

JERUSALEM

Prof. G. Stein, Phys. Chem.
Prof. A. Glasner, Inorg. & Acral. Chem.
Dr. E. Dimant, Biochem.
Prof. S. Adler, F.R.S.
E. Ephrati-Elizur, Ph. D., Bact.
V. Bachrach, Ph. D., Bacteriologist
J. Aronovitch, M.Sc.
T. Gurevitch, Prof. Microbiol.
S. Hestrin, Prof. Biochem.
Th. Grushka, Prof. Soc. Med.
G. Hares, Prof. Zoology
K. Guggenheim, Prof. Nutrition
Dr. B. Perlmutter-Hayman, Phys. Chem.
Prof. S. G. Cohen
Dr. Y. Liwschitz, Org. Chem.
H. Bernkopf, M.D., Assoc. Prof.
Y. Henis, M.Sc., Bacteriologist
R. Milbauer, M.Sc., Bacteriol.
Y. Becker, Virologist
J. Magnes, Prof, Physiology
B. Shapiro, Biochem.
E. Goldschmidt, Genetics
F. Steinof, Zoology

HAIFA

David Ginsburg, Chemist
Nathan Rosen, Physicist
Uria Garbalski, Chemist
C. A. Stoerk, El. Eng.
M Avrahami, Chemist
H. Lindeman, Physicist
H. Hanani, Math.
M. Edelstein, Math.
Ruben Schramm, Math.
Binjamin Schwarz, Math.
O. Platsker, Math.
Emil A. Halevi, Chemist
R. Pauner, Chemist
Isaiah Shavitt, Chemist
N. H. Steiger, Chemist
H. Aharoni, Chemist
A Hirsch, Physicist
M. Reichbach, Math.
J. Steinberg, Math.
E. Netanyahv, Math.
D. Tamari, Math
N. Klein, El. Engineer

REHOVOTH

G. M. J. Schmidt, Chemist
Ph. Coppens, Chemist
C. Brando, Chemist
F. Stechtel, Chemist
Burman, Chemist
M. Cohen, Chemist
S. Lipson, Physicist
M. Kalman, Chemist
A. Nes, Physicist

Signatures of Italian Scientists—Total Number, 174

PADOVA

Silvio Bezzi, Prof.
Ugo Morin, Prof.
Carlo San Donnini, Prof.
Giambattista Dal Piaz, Prof. Geol.
Mario Baldassarri, Prof.
Mauro Picone, Prof.
Antonio Nasini, Prof. Chim.
Luigi Musajo, Prof. Chim.
Ugo Croatto, Prof. Ord.
Giovanni Semerano, Prof. Ord.
Egidio Meneghetti, Prof. Ord.
Rolando Cultrera, Prof.
Tito Berti, Prof.
Jypolito Sorgato, Prof. Ord.
Umberto Carretta, Prof.
Bruno Geremia, Prof.
Antonio Servadei, Prof.
Angelo Bianchi, Prof. Ord.
Giovonini Rodiglicio, Prof.
Luigi Riccoboni, Prof.
Franco Flarer, Prof. Ord.

GENOVA

Andrea Gandini, Prof. Ord.
Corrado Rossi, Prof. Ord.
Aldo Iandelli, Prof. Ord.
Enrico Crepaz, Prof. Ord.

MILANO

Claudio Antoniani, Prof. di Chim.
Filippo Usuelli, Prof. di Anatomia e Fisiologia
Massimo Simonetta, Prof. Chem.
Lambert Malatesta, Prof. Chem.
Livio Cambi, Prof.
Adolfo Zimlico, Prof. Chem.
Mario Verde, Prof. Physics, Genoa
Carlo Arnaudi, Prof. di Microbiologia.
Arnallo Corbellini, Prof. di Chim.
Elio Baldacci, Prof. di Patologia Vegetale.
Raffaello Fusco, Prof. Chem.
Antonio Borsellino, Prof. Physics, Genoa.
Giuseppe Occhialini, Prof. Physics.
P. C. A. Caldirola, Prof. Physics.
Paolo Budini, Prof. Physics, Trieste.

PISA

Orfeo Turno Rotini, Prof.

MODENA

Giuseppe Acanfora, Prof. Ord. Clinica Malattie Infettive e Tropicali
Giorgio Peyronel, Prof. Gen. and Inorganic Chem.

CAMERINO

Vittorio Marchesoni, Prof. Bot.

PERUGIA

Giampolo Moretti, Prof. di Microbiologia

BOLOGNA

Giovanni Favilli, Prof.
Olivero Mario Olivo, Prof.
Luigi Bacialli, Prof.

FIRENZE

Giovanni Canneri, Prof, Ord.
Ferroni Enzo, Prof. Lucaricato
Giorgio Abetti, Prof.
Emanuele Pado, Prof. Anat. Comp.
Giovanni Sansone, Prof. Ord.
Clara Bergamini, Prof. Lucaricato
Guglichius Righini, Prof.
Diletto Quattrini, Prof. Istologia

TORINO

Giovanni Godina, Prof. Ord.
Giuseppe Levi, Prof. Emerito

ROME

Alessandro Rossi Fanelli, Prof. Biochem.
Beniamino Segre, Prof.

GENOVA

Ettore Pancini, Prof. Ord.

PALERMO

Pietro Benigno, Direttore Instituto Farmacologia
Tommaso Ajello, Prof. Chim. farmaceutica
Luigi Sacconi, Prof. Chim. Gen.
Beniamino Gulotta, Prof. Geodesia
Luciano Chiara, Prof. Astranomia
Giovanni Cusimano, Prof. Statistica
Lucio Lombardo Radice, Prof. Geom.
Filippo Guccione, Prof. Anatomia e Istologia patologica
Giuseppe Reverberi, Prof. di Zoologia
Aleardo Oliviero, Prof. Chim.
Alberto Monroy, Prof. di Anatomia Comparata
Silvio Vianelli, Prof. Stat.
Gerlando Maggiordomio, Aiuto e L. D.
Alfio Rubino, Prof. Clinica Oculistica
Marianó Santangelo, Prof. Fisica sperimentale

NAPOLI

Renato Caccioppoli, Prof.
Giuseppe Montalenti, Prof. Genet.
Luigi Califano, Prof.
Mario Galgano, Prof. Istologia

MODENA

Massimo Aloisi, Prof. di Patologia

MESSINA

Arnaldo Liberti, Prof. Chim.
E. Bonetti, Prof. di Patologia
Paolo Cartoni, Prof. Inc.
Liberato Ciavatta, Prof.
Giacomo Bionda, Prof. Merccolo

PARMA

Adolfo Ferrari, Prof.
Luigi Cavalca, Prof.
Giorgio Todesco, Prof.

CATANIA

Bruno Foresti, Prof. di Chim.

SIENA

Prof. Giuseppe Bianchini
Prof. Pompeo Spoto, Ord. di Ostretricia
Prof. R. Bortelli, Ord.
Prof. Franco Ottalcrytti, Clin. Dermatologia
Prof. Geo Rita, Ord. di Microbiol.
Prof. Alberto Bencini, Ord.
Prof. Domenico d'Antona, Microbiol.
Prof. Luiz Scremin, Ord. Farmalogia
Prof. Franco Lews
Prof. Antonio Pizzano, Igiene
Prof. Spidio Tosars, Ord.

74 additional signatures of scientists working in the above institutions.

Signatures of Japanese Scientists—Total Number, 1,141 [sic]

KYOTO: UNIVERSITY OF KYOTO

Akira Kobori, Prof. Math.
Zino Koba, Prof.
Kenzo Tanaka, Prof. Physics
Hideki Yukawa, Prof.
Tunahiko Sidei, Prof.
Satio Hayakawa, Prof.
Yoichi Uchida, Prof. Physics
Susuma Tomotika, Prof.
Minoru Kobayasi, Prof.
Chushiro Hayashi, Prof.

OSAKA

Tokunosuke Watanabe, Prof.
Moshihiro Asano, Prof.
Tetsuo Wakatsuki, Prof.
Hiroshi Yoshinaga, Prof.
Takeo Nagamiya, Prof.
Ryoju Utiyama, Prof.
Tsutomu Oda, Prof.
Tsunesaburo Asada, Prof.
Mitio Nagumo, Prof.
Kinjiro Kunngi, Prof.
Kodi Husimi, Prof.
Koreichi Ogata, Prof.
Hidetaka Terasaka, Prof.

OSAKA UNIVERSITY

Saburo Komori, Prof.
Masaki Watanabe, Prof.
Ichyno Hanjor, Prof. Biology
Saboro Kumagai, Prof.
Minoru Okada, Prof.
Tshizo Ikemura, Prof. Physical Biochemistry
Takeo Kaneko, Prof.
Naoyasu Sata, Prof.
Kanda Eizo, Prof., Sendai
Shunsuke Murahashi, Prof.
H. Azumi, Prof., Sendai
Kenji Aoyagi, Prof.
Kazuo Okunuki, Prof. Biology
Kanae Senda, Prof.
Taro Ueda, Prof.
Noburo Kamiya, Prof. Biology
Ryutavo Tsuchida, Prof.
Masazumi Nakagawa, Prof.
Kozo Hirota, Prof.
Isamu Nitta, Prof.
Sunao Imanishi, Prof., Fukuoka
Yonezo Morino, Prof., Tokyo
Ariyuki Aihara, Prof., Matsumoto

SAPPORO HOKKAIDO UNIVERSITY

Yoro Ona, Prof.
Jiro Fumichi, Prof. Physics
Hio Kolayashi, Prof.
T. Akemine, Prof.
Hajime Matsunra, Prof. Botany
Takaharu Fukutomi, Prof.
Sajiro Makino, Prof. Zoology
Masakazu Hayashi, Prof.
Juro Homibi, Prof. Chem.
Seiji Hashimoto, Prof.

TOYOHASHI: AICHI UNIVERSITY

Akira Obayashi, Prof.
Hitaku Kyusojin, Prof.
Masuo Ando, Prof.
Notukazu Kuwashima, Prof.
Susumu Yamaguichi, Prof.
Tomoji Yamasaki, Prof.
Iwao Oishi, Prof.
Tomone Hakura, Prof.
Kiyokane Obata, Prof.
Fuji Wakisaka, Prof.

TOKYO: RIKKYO UNIVERSITY, DEPT. OF PHYSICS

Eizo Tajima, Prof.
Ko Aizu, Prof.

TOKYO METROPOLITAN UNIVERSITY

Muneo Sasaki, Prof.

TOKYO INSTITUTE OF TECHNOLOGY

Hiroshi Fukuda, Prof.

NIHON UNIVERSITY

Osamu Hara, Prof.
Eiichi Kawasaki, Prof.
Goroh Tominaga, Prof.
S. Umezawa, Prof.
F. Kito, Prof.
T. Suhara, Prof.
M. Fujii, Prof.
I. Tanishita, Prof.
S. Yanagisawa, Prof.
M. Masima, Prof.
T. Takei, Prof.

WASEDA UNIVERSITY

Shiro Koizumi, Prof.
Haruo Hirota, Prof.
Junichi Takagi, Prof.
Tomohoshi Hiroba, Prof.

HOSEI UNIVERSITY

Prof. Kaoru Yasui
Prof. Naokichi Tanaka, Dip. History
Prof. Naomichi Funahashi, Law
Prof. Bakuji Ari, Law
Prof. Tetsuzo Tanigawa
Prof. Fumio Kurahashi, Soc. Econ.
Prof. Koichi Ikeda, Law
Prof. Keiichi Matsushita
Prof. Satoru Kuroda, Law, Tokyo Metro. Univ.
Prof. M. Awano, Physics, Tokyo Eng. College
Prof. Shin Yamamoto, Sociology, Kanagawa Univ.
Prof. Masao Ichimata, Law, Waseda Univ.
Prof. G. Honjo, Physics, Tokyo Eng. College
Prof. Shozo Shida, Philosophy, Kanagawa Univ.
Prof. Keishiro Irie, Law, Aichi Univ.
Prof. Shigetada Murayama
Prof. Sho Ishimoda, Law
Prof. Tsuneo Kikkawa, Law
Prof. Mikio Adachi, Law
Prof. Akira Nakamura, Law
Prof. Kanichi Iida, Polit.
Prof. Shozo Uchiyama, Law
Prof. Shozo Fujita
Prof. J. Oishi, Physics Tokyo Eng. College
Prof. Masao Kusanagi, Philos., Kanagawa Univ.
Prof. Chihiro Hosoya, Hitosubashi Univ.
Prof. Michikazu Hayakawa, Math., Tokyo Eng. College
Prof. N. Kawai, Physics, Tokyo Eng. College
Prof. Fumio Ikeda, Law, Senshu Univ.

UNIVERSITY OF TOKYO

F. Yamasaki, Prof., Agri. Eng.
Y. Ochi, Prof., Animal Husbandry
T. Hosi, Prof., Animal Husbandry
T. Okabe, Prof., Animal Husbandry
Yasuo Kondo, Prof., Agri. Econ.
Yoshio Ohkubo, Prof., Animal Husbandry
S. Yamamoto, Prof., Animal Husbandry
M. Naito, Prof., Animal Husb.
Yoshiyuki Matsue, Prof., Dept. of Fisheries
Saburo Funahashi, Prof., Agri. Chemistry
Moriso Hirata, Prof., Physics
Toshinosuke Muto, Prof., Theoretical Physics
Prof. Hisashi Kuno, Geology
Prof. R. Kubo, Physics
Isao Imai, Prof. Theoretical Physics
Bun'ichi Tamaushi, Prof., Physical Chem.
Takashi Isobe, Prof., Instrumentation
Prof. Hiroshi Hara, Botany
Prof. Fuyuji Takai, Geology
Prof. H. Takahasi, Physics
Dr. Z. Suetuna, Prof., Math.

UNIVERSITY OF TOKYO—continued

Dr. Masuo Fukuhara, Prof., Math.
Yoidi Fujimoto, Prof., Inst. for Nuclear Study, Tanashimachi
Prof. Yusuke Sumiki, Dept. of Agriculture
Prof. Takeo Shibamoto, Dept. of Agriculture
Prof. Hirosi Kuwasumi, Earthquake Research Inst.
Prof. Ryutaro Takahasi, Earthquake Research Inst.
Fumio Matsuma, Prof., Dept. of Fisheries
Yoshinobu Kakiuchi, Prof., Physics
Teturo Inui, Prof. Theoretical Physics
Prof. B. Wada, Botany
Prof. K. Ochiai. Physics
Goro Miyamoto, Prof., Nuclear Physics
Tosio Kato, Prof. Math. Physics
Hidehiko Tamaki, Prof., Physics
Shizuo Miyake, Prof. Physics
Prof. Shizuo Hattori, Botany
Prof. K. Honda, Physics
Dr. Mikao Moriya, Prof., Math.
S. Iyanaga, Prof., Math.
Dr. Yukiyosi Kawada, Prof., Math.
Gyo Takeda, Prof., Inst. for Nuclear Study, Tanashimachi
Prof. Masanao Matsui, Dept. of Agriculture
Prof. Yakichi Noguchi, Agronomy
Prof. Takeshi Minakami, Earthquake Research Inst.

COLLEGE OF GENERAL EDUCATION, KOMABA, MEGURO-KU

Teruyoshi Udoguchi, Prof.
T. Shirai, Prof.
Sin-ichiro Tomonaga, Prof.
M. Seya, Prof.
Yukio Mimura, Prof.
H. Ootuka, Prof.
Shigeichi Kure, Prof.
Dyuhei Sato, Prof.
M. Miwa, Prof.
Nobuo Katayama, Prof.
T. Miyazima, Prof.

SCHOOL OF LAW

Saburo Kurusu, Prof.
Akira Yamada, Prof.
Yosiyuki Noda, Prof.
Masao Maruyama, Prof.
Mituo Taketani, Prof., Rikkyo (St. Paul's) Univ., Tokyo
Mokichiro Nogami, Prof., Tokyo Univ.
Yoichi Fujimoto, Prof., Inst. for Nuclear Study, Tokyo Univ.
Tomoyasu Tanaka, Prof., Kyusyu Univ., Fukuoka
Sin-ichiro Tomonaga, Prof., Tokyo Univ. of Education
Masami Ito, Prof.
Ichiro Kato, Prof.
Kiyoaki Tsuji, Prof., Public Adm.
Shoichi Sakata, Prof., Nagoya Univ., Nagoya
Tokutaro Hirone, Prof., Tohoku Univ., Sendai
Masao Kotani, Prof., Tokyo Univ.
Gyo Takeda, Prof., Inst. for Nuclear Study, Tokyo Univ.

OCHANOMIZU UNIVERSITY

Tsuneto Shimose, Prof.
Saburo Aska, Prof.
Seiichiro Utsumi, Prof.
Jiro Sakagami, Prof.
Taro Hayashi, Prof.
Kimiko Anno, Prof.

SENDAI: TOHOKU UNIVERSITY

Koki Fukushima, Prof., Elect. Eng.
Juro Oizumi, Prof., Res. Inst. Elect. Com.
Matoshi Matsudaira, Prof. Eng.
Tadamoto Nimura, Prof., Elect. Eng.

GIFU: GIFU UNIVERSITY

Torao Ki Yasato, Prof.
Kujocki Hoidsuno, Prof.
Akira Miwa, Prof.
Hirose Hirose, Prof.
Shutaro Ushimaru, Prof.
Shigeru Tamai, Prof.
K'kuo Chishima, Prof.

NAGOYA: NAGOYA UNIVERSITY

Y. Yamashida, Prof.
Masao Miyake, Prof.
Tiaki Kasiwagi, Prof.
Tsuneo Hirano, Prof.
Kenso Yamamoto, Prof.
T. Suga, Prof.
Y. Sawamoto, Prof.
Yataro Sekido, Prof.
T. Koka, Prof.
I. Kagawa, Prof.
Isamu Sano, Prof.
Y. Ishu, Prof.
T. Noda, Prof.
Kazuo Yamasaki, Prof.
H. Shikata, Prof.
Kenji Yamazake, Prof.
T. Ogawa, Prof.
R. Hirooka, Prof.
Ryoicho Yamada, Prof.
Ch. Kisatsuma, Prof.
Toru Ikuyo, Prof.
Seizaburo Shinobu, Prof.
Z. Sakado, Prof.
S. Takeda, Prof.
H. Sekiguchi, Prof.
Funio Oosawa, Prof.
I. Miyagawa, Prof.
Y. Toyama, Prof.
F. Ezami, Prof.
M. Kimura, Prof.
Yoshimasa Hirata, Prof.
Ken Sugawara, Prof.
K. Gotoh, Prof.
Seimatsu Narumi, Prof.
K. Furuki, Prof.
T. Shigematsu, Prof.

NAGOYA INSTITUTE OF TECHNOLOGY

Shin-ichi Takahashi, Prof.
Jun-iti Ito, Prof.
Ikuma Ishii, Asst. Prof.
Saburo Mizuno, Prof.

JAPAN SOCIAL WELFARE COLLEGE

Norayoshi Nokuo, Prof.
Totaro Nakamura, Prof.
Bunu Kusumoto, Prof.
Hirosi Urabe, Prof.
Tusa Asaka, Prof.

FUKUOKA

Atuyosi Okazaki, Prof., Kyushu Univ.

HIROSHIMA

Kiyosi Sakuma, Prof., Hiroshima Univ.

KOBE

Teinosuke Kanda, Prof., Physics, Kobe Univ.
Masateru Sonoda, Prof., Konan Univ. Motoyama Kobe
S. Kawata, Prof., Konan Univ. Motoyama Kobe

OKAZAKI: AICHI-GAKUGEI UNIVERSITY

Hatsusaka Kato, Prof.
Zensuke Muro, Prof.
Hideo Gamo, Prof.
Noboru Sassa, Prof.
Tomoji Inoue, Prof.

900 additional signatures of scientists working in the above institutions.

Signatures of Dutch Scientists—Total Number, 29

AMSTERDAM

J. Hilgevoord, Physicist
A. S. Reiner, Physicist
M. J. Offerhaus, Physicist
Prof. Dr. J. D. van der Waals, Physicist
E. C. Slater, Prof. Physiol. Chem.
S. A. Wouthuysen, Physicist
J. M. J. van Leeuwen, Physicist
Prof. Dr. A. de Froe, Geneticist
Dr. L. H. van der Tweel, Physicist
J. Kok, Prof. of Toxicology, Pharmacy and Biochemistry

UTRECHT

Prof. Dr. M. G. J. Minnaert, Physicist
Prof. Dr. N. M. Hugenholtz, Physicist
H. G. K. Westenbrink, Prof. of Physiological Chem.
Prof. Dr. H. C. Burger, Physicist
Prof. Dr. G. H. Bretschneider, Biologist
Prof. Dr. B. R. A. Nijboer, Physicist
Prof. Dr. L. van Hove, Physicist

DELFT

Prof. Dr. W. T. Koiter, Physicist
W. Berends, Prof. Biochem.

LEIDEN

Prof. Dr. A. D. Fokker, Physicist
Prof. Dr. H. J. Gloor, Geneticist
Dr. H. A. Tolhoek, Physicist

NIJMEGEN

Prof. Dr. S. J. Geerts, Geneticist
E. C. Noyons, Prof. Physiological Chemistry

ARNHEM

Dr. P. J. Waardenburg, Geneticist

GRONINGEN

Prof. Dr. M. J. Sirks, Geneticist
Prof. Dr. H. J. Groenewold, Physicist

WAGENINGEN

Prof. Dr. T. H. Thung, Biologist
Albert Smit, Geologist

Signatures of New Zealand Scientists—Total Number, 21

AUCKLAND

D. Hall, Lect., Chemistry
J. K. Wilmhurst, Lect., Chemistry
R. C. Cambie, Lect., Chemistry
A. L. Odell, Sr. Lect., Chem.
R. W. Olliff, Lecturer, Chem.
L. D. Colebrook, Lect. Chem.

DUNEDIN

S. A. Bates, Lecturer
F. B. Cousins, Lecturer
A. K. McIntyre, Professor, Physiology
G. H. Satchell, Lecturer
I. K. Holst, Research Assist.

WELLINGTON

P. Ralph, Zoologist
W. A. Watters, Geologist
R. A. Coupor, Geologist
I. G. Speden, Geologist
M. Holdsworth, Botanist
M. T. Le Punger, Geologist
C. A. Fleming, Geologist

MAKARA

R. F. Hay, Geologist

EASTBOURNE

A. Scott, Geologist

Signatures of Norwegian Scientists—Total Number, 112

BERGEN

Dr. August Brinkmann, Jr., Prof.
Knut Faegri, Prof., dr. philos.
Trygve Gjestland, Prof., preventive medicine

TRONDHEIM

Harald Wergeland, Prof. Theor. Physics
Helge Larsen, Prof. of Biochem.
Thorolf Vogt, Prof. of Mineralogy and Geology
Sverre Westin, Prof. of Applied Physics
John Olav Stubban, Prof. of Mathematics
Otto Bastiansen, Prof. of Theor. Chemistry

VOLLEBEKK

H. Wexelsen, Professor
M. Odelien, Professor
O. Laig, Professor
Olav Aspesator, Professor
P. Ottestad, Professor
D. Nissen, Professor
A. H. Bremer, Professor
Johs Höie, Professor
Bjarne Ljones, Professor
Ystgaard, Ole M., Professor
S. Lindeberg, Professor
Gotfred Kvifte, Professor

OSLO

Odd Hassel, Professor
Endre Berner, Professor
Bjørn Føyn, Professor
Ivar Oftedal, Professor
Axel Strom, Professor
Roald Tangen, Professor
Gleditsch Ellern, Professor em.
I. Th. Rosenqvist, Professor
Johan Forgersen, Prof., Anatomy
George Hygen, Professor, plant physiology
Trygve Braarud, Professor
Alexis C. Pappas, Professor
Søren Laland, Professor
Haakon Natvig, Professor dr. med.
Anatol Heintz, Professor
Ellen Gleditsch, Professor
Bjorn Föger, Professor
Johan T. Ruud, Professor
Kaare Strøm, Professor
Trygve Braarud, Professor
Odd Hassel, Professor
Christian Bay, Prof.

73 additional signatures of scientists in above cities.

Signatures of Panamanian Scientists—Total Number, 2

PANAMA

Dr. Lawrence S. McGowan, Prof.
Dr. Phil Erich Graetz, Prof.

Signatures of Peruvian Scientists—Total Number, 1

LIMA

Gaston Pons Muzzo, Chemist, Prof. of Physical Chem., Facultad de Quimica de la Univ. Nacional Mayor de San Marcos de Lima.

Signatures of Polish Scientists—Total Number, 84

WARSAW

L. Infeld, Univ. Prof.
A. Soltan, Univ. Prof.
W. Kemula, Univ. Prof.
T. Swiderski, Univ. Prof.
W. Tomassi, Univ. Prof.
T. J. Wojno, Univ. Prof.
I. Zlotowski, Univ. Prof.
T. Chmielewske, Univ. Prof.
W. Rubinowicz, Univ. Prof.
W. Swietoslawski, Univ. Prof.
St. Minc, Univ. Prof.
T. Urbanski, Univ. Prof.
M. Michalski, Univ. Prof.
T. Ciborowski, Univ. Prof.
A. Orszagh, Univ. Prof.

POLISH ACADEMY OF SCIENCE

T. Jaczewski
W. Niemierko
T. Manteuffel
Andrei Biernaczi
Qoman Kozlowski
W. Szafer, Krakow
J. Wasilkowski
K. Kuratowski, Univ. Prof.
M. Smialowski, Prof., Polytech. Univ.
L. Paszkiewicz, Prof., Med. Acad.
A. Gruca, Prof., Med. Acad.
J. Supniewski, Prof., Med. Acad.
M. Danysz, Univ. of Warsaw
T. Baranowski, Prof., M.D., Med. School, Wroclaw
Wl. Missiuro, Prof., M.D., Med. School
E. Czarnecki, Prof., M.D., Poznan
J. Konorski, Prof. Polish Acad. of Science
H. Brokman, Prof., Med. Acad.
J. Dabrowski, Prof., U.J., Krakow
I. Reifer, Prof. Agr. College
Hirszfeld Hanna, M.D., Prof., Wroclaw
Falkiewiczantoni, Prof. Univ. Med., Wroclaw
Szczeklik Solveral, Prof., Intern. Med., Wroclaw
W. Michajtow
H. Jabtonski
W. Orlowski
Olig Michatowicz
M. Czaja

POLISH ACADEMY OF SCIENCE—continued

S. Leszczycki
T. Kotarbinski, Univ. Prof.
W. Zawadowski, Prof., Med. Acad.
J. Groszkowski, Prof., Tech. Univ.
E. Mikulaszek, Prof., Med. Acad.
J. Heller, Prof., Med. Acad.
B. Bobranski, Prof., Med. Acad., Wroclaw
L. Sosnowski, Univ. Prof.
Fr. Czubalski, Prof., M.D., Med. School
Z. Stolzmann, Prof., M.D., Ph.D., Med School, Poznan
B. Gutowski, Prof., M.D.
Janina Hurynowicz, Prof., Uniwersytet Torun, Torun
W. Goetel, Prof., A.G.H., Krakow
J. Litwiniszyn, Prof., A.G.H., Krakow
Irena Mochnacka, Prof., Med. School Univ.
Knaster Bronislaw, Ph.D., Prof. Math., Wroclaw
Slopek Stefan, M.D., Prof., Microbiology, Wroclaw
T. Hane, Prof., Pharmacology, Med. School, Wroctaw
T. Marciniak, M.D., Prof., Anatomy, Wroctow
Witold Zawadowski, Prof., Radiology, Med. School, Warsaw
T. Kotarbinski, Prof. of Logic, Warsaw Univ., Pres. of Polish Acad. of Science
Witold Nowacki, Dr. Prof., Univ., Warsaw
Witold Szymanonski, Prof., Tech. Univ., Warsaw
Ignacy Malecki, Prof., Tech. Univ., Warsaw
Jerzy T. Skowronski, Prof. Dr., Wroclaw
Pawet J. Nowacki, Prof. Dr., Tech. Univ., Warsaw
Boledan Pniewski, Prof. Dr., Warsaw Polit., Warsaw
Boldan Hofanowski, Dr., H. C. Prof., Warsaw
Francinek Szelagowski, Prof. Dr., Warsaw Polit., Warsaw
Stanislaw Mazur, Prof., Math., Warsaw
L. Skurska, Ph.D., Lecturer, Microbiology, Wroctaw
Brill Fulinsz, Prof., Microbiology, Warsaw
Henryk Makower, M.D., M.Ph. Assoc. Prof., Microbiol. Wroclaw
Robert Szewalski, Prof., Mech. Eng., Tech. Univ. Edansk
Janusz Jakubowski, Prof., Tech. Univ., Warsaw
Edward Czetwertynski, Prof., Tech. Univ., Warsaw
Janusz Groszkowski, Prof. Dr., Tech. Univ., Warsaw
Michat Lunc, Prof. Dr., Warsaw Univ., Warsaw
Z. Macrewski, Prof. Dr., Warsaw Polit., Warsaw
Witold Wienbian, Prof. Dr., Warsaw Polit., Warsaw
Dr. Stanislaw Fryre, Prof.

Signature of Portuguese Scientist—Total Number, 1

AVEIRO

Angelo C. Lopes

Signatures of South African Scientists—Total Number, 40

CAPETOWN

G. C. Linder, Chem. Pathol.
J. W. F. Juritz, Lect., Physics
G. G. Wiles, Sr. Lect., Physics
W. Schaffer, Professor of Physics
J. N. Darrod, Lect., Math.
Martin J. Pollard, Assoc. Prof., Applied Math.
K. H. Schutte, Lect., Botany
Don. Edwyn Isaac, Prof., Botany
E. S. Twyman, Prof., Botany, Grahamstown
J. G. Taylor, Sr. Lect., Psychol.
M. Mathias, Lect., Geology
D. H. Davies, Lect., Geography
L. Impey, Lect., Geography
M. Tredenheim, Lect., Physiology
N. Sapeika, Assoc. Prof., Pharm.
J. H. Day, Prof., Zoology
B. T. Kingsman, Assoc. Prof., Zoology
E. H. Rolson, Jr. Lect., Zoology
K. M. F. Scott, Res. Worker, Zoology
R. Armbel, Sr. Lect., Chem.
A. M. Stiple, Lect., Organic Chem.
E. N. Grindley, Sr. Lect., Physics
D. B. Lean, Professor of Math.
K. O. Household, Lect., Math.
B. Abrahamson, Lect., Math.
E. A. Schulze, Sr. Lect., Botany
D. C. Olivier, Lect., Botany
N. R. L. Hall, Prof., Psychol., Grahamstown
E. S. W. Simpson, Prof., Geology
A. O. Fuller, Lect., Geology
E. E. Cumming, Lect., Geography
H. Gravenstein, Assoc. Prof., Physiology
L. E. Alberts, Jr. Lect., Physiology
A. G. Ramsay, Lect., Physiol.
N. A. H. Millard, Lect., Zoology
Nellie F. Pakison, Lect., Zoology
A. C. Brown, Jr. Lect., Zoology
F. H. Kimber, Prof., Organic Chem.
A. H. Spone, Sr. Lect., Chem.
M. H. Pay, Lect., Chemistry

Signatures of Soviet Scientists—Total Number, 216

MOSCOW

A. Nesmeyanov, Organic Chem.
I. Bardin, Metallurgy
P. Kapitza, Physics, Foreign Assoc. N.A.S.
K. Ostrovitianov, Polit. Econ.
D. Scherbakov, Geochemistry
V. Vinogradov, Russian Language
A. Vinogradov, Geochemistry
B. Vvedenski, Radiophysics
A. Schubnikov, Crystallography
N. Andreev, Acoustics
E. Pavlovski, Zoology, Leningrad
A. Kursanov, Physiology
V. Kirillin, Heat Technology
T. Lisenko, Genetics
N. Muskhelishvily, Mechanics, Tbilisi
E. Zukov, History of Japan
V. Siforov, Radio
A. Oparin, Biochem. of Plants
A. Bakulev, Surgery
I. Eichfeld, Botanics, Tallin
A. Efimov, History
S. Mironov, Geology of Oil
A. Bochvar, Metallurgy
V. Kargin, Physical Chem.
N. Semenov, Chemical Physics
A. Topchiev, Organic Chem.
D. Skobeltzyn, Physics
S. Khristianovich, Mechanics
V. Ambartsumyan, Astronomy, Erevan
A. Terpigorev, Mining
G. Kriziszanovski, Power
M. Aliev, Geology, Baku
Y. Peive, Soil Science, Riga
G. Charyev, Philosophy, Ashkhabad
A. Deborin, Philosophy, History
A. Kolmogorov, Mathematics
I. Tiurin, Soil Science
I. Gerasimov, Physical Geography
S. Medvedev, Organic Chem.
D. Korsyinsky, Petrography
K. Nenadkhevich, Chemistry, Mineralogy
N. Rikalin, Welding
V. Kondratiev, Physical Chem.
S. Strumilin, Economics
N. Zizin, Botanics
S. Sobolev, Mathematics
N. Bruevich, Mechanics
A. Samarin, Metallurgy
B. Kazanski, Organic Chem.
I. Nikolaev, Transport
V. Dikushin, Engineering
H. Abdullaev, Petrography, Tashkent
F. Konstantinov, Philosophy
M. Agoshkov, Mining
V. Engelghart, Biochemistry
A. Blagonravov, Mechanics
I. Petrovski, Mathematics
M. Lavrentiev, Mathematics
V. Nemchinov, Economics
A. Arbusov, Organic Chem.
I. Artobolevski, Mechanics
A. Palladin, Biochem., Kiev
A. Tupolev, Aircraft Design
M. Keldysh, Mathematics
N. Sissakyan, Biochem. of Plants
A. Berg, Radio
V. Kotelnikov, Radio
U. Kobzarev, Radio
K. Satpaev, Geology, Alma-Ata
P. Lobanov, Agriculture
N. Schatski, Geology
N. Belov, Crystallography
S. Volfkovich, Inorg. Chem.
S. Obnorsky, Russian Linguistics
K. Vlasov, Geochemistry
A. Dorodnitsin, Geophysics
P. Kochina, Hydrodynamics
N. Bogolubov, Mathematics
B. Alexandrov, Hydrotechnics
M. Tikhomirov, History of the USSR
M. Stirikovich, Heat Technology
T. Khachaturov, Economics of Transportations
M. Kapelushnikov, Mining
G. Alexandrov, Philosophy
M. Mikheev, Heat Technology
V. Sokolovski, Mechanics
I. Kazarnovski, Inorganic and General Chemistry
K. Lavrovski, Chemistry of Oil
M. Mitin, Philosophy
V. Shaposhnikov, Technical Microbiology
A. Gorinov, Transport
N. Nuszdin, Genetics
I. Kibel, Mathematics
N. Piksanov, Russian Lit., Leningrad
M. Pavlov, Metallurgy
A. Predvodietelev, Physics
A. Mikhailov, Astronomy, Leningrad
A. Polkanov, Petrography, Leningrad
L. Pontryagin, Mathematics
I. Bruk, Electrotechnics
A. Maximov, Natural History
N. Druszinin, History of the USSR
I. Trakhtenberg, Economics
I. Smalgauzen, Evolutionary Morphology
E. Varga, Economics
I. Chernyaev, Inorganic Chem.
N. Strakhov, General Geology
S. Barhudarov, Linguistics
I. Vekua, Applied Math.
V. Kuprevich, Botanics, Minsk
N. Zitovich, Soil Mechanics, Engineering Geology
O. Levizki, General Geology
S. Umarov, Physics, Stalinbad
M. Iovchuk, History of Philos.
S. Lebedev, Computing devices
A. Alikhayan, Physics
E. Blinov, Geophysics

MOSCOW—continued

S. Arkhangelski, History, Gorky
V. Kuznezov, Solid State Physics, Tomsk
E. Korovin, International Law
L. Sretenski, Mechanics
A. Balandin, Organic Chem.
V. Lazarev, History of Arts
A. Imshenezki, Gen. Microbiol.
K. Koshtoyanz, Comparative Physiology
V. Riszkov, Botanics
L. Shevyakov, Mining
I. Minz, History
L. Stern, Physiology
E. Kosminski, History
S. Vekshinsky, Electronics
S. Skochinski, Mining
I. Vinogradov, Mathematics
I. Achunbaev, Surgery, Frunze
U. Matulis, Physical Chem., Vilnus
P. Rebinder, Physical and Colloidal Chem.
A. Beteckhtin, Mineralogy
L. Sedov, Mechanics
N. Bekhtin, Organization, Mechanization and Economics of Construction Works
A. Schukin, Radio
I. Knunyanz, Organic Chem.
V. Schuleikin, Sea Physics
A. Mikulin, Internal Combustion Engines
M. Dubinin, Sorbtional processes
V. Sukachev, Botanics
L. Landau, Physics
N. Dolszal, Heat Technology
A. Frumkin, Physical Chem.
C. Bernshtein, Mathematics
A. Tikhonov, Geophysics
B. Stechkin, Heat Technology
A. Larionov, Elect. Engineering
A. Minz, Radio
A. Krilov, Chemistry and Processing of Oil
V. Belousov, General Geology
V. Overkhovich, Biochemistry
A. Vishnevski, Surgery
A. Myasnikov, Therapeutics
V. Timakov, Microbiology
A. Letavet, Hygiene
V. Vinogradov, Therapeutics
F. Krotkov, Hygiene
A. Braunstein, Biochemistry
K. Skryabin, Helminthology
N. Sokolov, Agriculture
S. Demidov, Agriculture
V. Boltinski, Eng. Mechanics
I. Sharov, Hydrotechnology
N. Rostovzev, Cattle Breeding
A. Popov, Building Materials
V. Nasonov, Building Structures
G. Kuznetzov, Structure of Buildings
K. Kartashev, Ferroconcrete Structures
K. Alabyan, Architecture
V. Svetlichni, Organization, Mechanization and Economics of Construction Works
A. Grigoriev, Geography
L. Lusternak, Mathematics
D. Zernov, Electronics
I. Maiski, History
M. Kammari, Philosophy
S. Sarkisov, Neuropathology
V. Parin, Physiology
A. Nesterov, Therapeutics
I. Davidovski, Pathological Anatomy
V. Chernigovski, Physiology
S. Mardashev, Biochemistry
N. Konovalov, Neuropathology
S. Severin, Biochemistry
I. Sinyagin, Agrochemistry
N. Sherbinovski, Entomology
I. Varunyanz, Plant Selection
P. Konstantinov, Agriculture
E. Liskun, Cattle Breeding
M. Melnikov, Pedagogics
B. Rubanenko, Architecture
A. Vlasov, Architecture
V. Ovsyankin, Organization, Mechanization and Economics of Construction Works
A. Mordvinov, Architecture
V. Kucherenko, Organization, Mechanization and Economics of Construction Works
V. Saprikin, Organization, Mechanization and Economics of Construction Works
V. Mislin, Architecture
G. Gradov, Architecture of Public Buildings
B. Mezenzev, Architecture
P. Spishov, Sanitation Technique
S. Bashinski, Organization, Mechanization and Economics of Construction Works
V. Burman, Architecture
S. Skazkin, History of Western Europe
A. Kalashnikov, Physics
I. Loveiko, Architecture
N. Bilinkin, History of Architecture
G. Simonov, Architecture
P. Krasilnik, Building Structures
G. Ludvig, Architecture
N. Chetvertukhin, Mathematics
B. Orlov, Geography
V. Shatskaya, Pedagogics

Signatures of Spanish Scientists—Total Number, 2

MADRID

Jose Mª de Corral, Professor
Carlos Gil y Gil, Professor, Medicine

Signatures of Swedish Scientists—Total Number, 2

STOCKHOLM

Hugo Theorell, Professor
Tiselius, Arne, Prof, Biochem. Uppsala,

Signatures of Swiss Scientists—Total Number, 13

GENEVA

Pierre Favarger, Professeur de Chimie physiol.
Emile Briner, Professeur honor. de Chimie
Emile Cherbuliez, Professeur de chimie organique
A. Franceschetti, Professeur d'ophtalmologie
F. Chodat, Professeur de botanique
Th. Posternak, Professor of Chemistry, Univ. Geneva
Leopold Ruzicka, Professor of organic chemistry, Zürich
W. D. Brueckner, Geologist
Jean M. Posternak, Professor de physiologie
D. Klein, Chef de l'Institute de genetique medicale
E. Guyenot, Professeur de zoologie
Ernst Rothlin, Professeur honor. de pharmacologie, Bale
T. Reichstein, Professor in organic chemistry, Basel

Signatures of Siamese Scientists—Total Number, 20

BANGKOK: CHULALONGKORN UNIVERSITY

Prof. Suprachai Vanichwatana, Biologist
Prof. Kalaya Israsena, Chemist
Prof. Yen Suntavijarn, Physics
Dr. Prasom Smitanond, Chemist
Dr. Krasa, Chemist
Prof. Chow Koon Sanitanvitet, Astronomer
Dr. Prabhat, Mathematics
Dr. Pimol Kolakit, Physics, U.N.E.S.C.O., Paris, France
Prof. Emeleus, Inorganic Chem., Pembroke College, Cambridge
Dr. Pinpat Pithayabit, M.D., Siriraj Hospital
Prof. Luang Sri Smatviyakit, Botanist
Prof. Baures Kamthong, Chemist
Prof. Peng Somanabhend, Physics
Dr. Kaisri Poshyachinda, Chem.
Dr. Sala Tasanond, Botanist
Dr. Charsen Tamabanit, Cosmology
Thong Sook Bongsadadt, Chem. Dept.
Prof. Watanabe, Crystallography, Osaka Univ., Japan
Dr. Amnuay, Radiology, Siriraj Hospital
Dr. Chachawalya, Obstetrician, Siriraj Hospital

Signatures of Turkish Scientists—Total Number, 5

ANKARA

Mustafa Suner, Professor
Muharrem Köksal, Professor
Izzet Kantemir, Professor
Kazim Aras, Dean of Science Professor
Ihsan Dogramaci, Professor

Signatures of Uruguayan Scientists—Total Number, 9

MONTEVIDEO

Mario Cassinoni, Rector de la Universidad, Biophysicist
Jorge Chebataroff, Geographer
Gabriel Gerard, M.D., Histologe
Felix Cernuschi, Physicist, Astrophys.
Maria Elena Beceiro, Physical Chem.
Juan Jose Vinoles, Med.
A. M. Grompone, Dir. del Inst. de Profeseros "Artigas"
Constancio Lazaro, Geneticist
Antonio Petracca, Mathematics

Signature of Pakistani Scientist—Total Number, 1

PESHAWAR

Dr. Abdul Majid Mian, Principal Islamia College, University of Peshawar.

Signatures of Yugoslavian Scientists—Total Number, 38

BEOGRAD

Dr. Borislav Blagojevic, Rector of Univ.
Dr. Vukic M. Micovic, Prof. Chemistry
Dr. Stojan Pavlovic, Prof.
Dr. Milutin Radovanovic, Prof. Zoology
S. Pavle Tspinac, Prof. Biochem.
Gj. Stefenovic, Prof.
D. S. Sejivic, Prof.
Dr. S. Grosduvic, Prof.
Dr. Bozidas S. Djordjorvic, Vice-Rector Univ.
Dr. Ilija Djuziaic, Prof.
Dr. Dragiza Ivanovic, Assoc. Prof., Physics

ZAGREB

Ivan Tupek, Prof., Theoret. Physics
Z. Jauliemo, Prof., Applied Math.
Mihovil Prostenik, Prof., Chem.
Mladen Paic, Prof., Physics
Kresimir Baleuovic, Prof., Organic Chem.
Nozo Terak, Prof., Physical Chem.

LJUBLANA

Dr. Leo Savnik, Prof., Med. Fac.
B. Lavric, Prof., Surgery
G. Vidao, Prof., Math.
A. M. Valcutonvic, Prof., Microbiol.
Dr. M. Perpar, Prof., Org. Chem.
T. Kuker, Lect., Physics
A. Schiber, Prof., Physiology
F. Razovic, Prof., Geology
O. Reya, Prof., Meteorology
E. Mayer, Prof., Botany
J. Hadic, Prof., Chemistry
Dr. Mary Aucin, Prof., Child Health and Pediatrics
G. Peterlin, Prof., Physics
S. Dominaco, Prof., Astronomy
J. Hadel, Prof., Zoology
D. Shucov, Docent, Med. Fac.
A. Hosic, Prof., Histol. and Embryol.
D. Auren, Prof., Appl. Mech.
G. Braduvic, Prof.
G. Tomazic, Prof., Botany
L. Knop, Prof., Chemistry

Signatures of United States Scientists—Total Number, 2,705

ALABAMA

Birmingham: Ward Pigman, Prof. of Biochem.

ARIZONA

Tucson: Jay E. Treat, Jr., Prof. of Phys.

CALIFORNIA

Berkeley: University of California:
Richard B. Goldschmidt, Prof., Genetics
Alan M. Portis, Prof., Phys.
F. A. Jenkins, Prof., Phys.
Ralph Hultgren, Prof., Metallurgy
E. E. Snell, Prof., Biochem.
H. Tarver, Prof., Biochem.
Robley C. Williams, Prof., Biochem.
Edward C. Tolman, Prof., Psychology
E. G. Thomsen, Prof., Eng.
Arthur F. Kip, Prof., Phys.
W. D. Knight, Prof., Phys.
D. H. Lehmer, Prof., Math.
George C. Pimental, Prof., Chem.
J. B. Neilands, Prof., Biochem.
Roger Y. Stanier, Prof., Microbiology
Walter P. Kelley, Prof., Geology
E. C. Keachie, Prof., Eng.
J. R. Friedman, Prof., Med.

Davis:
G. Ledyard Stebbins, Prof., Genetics
S. A. Peoples, Prof., Pharmacology
D. H. Volman, Prof., Chem.
Katherine Esau, Prof., Botany
E. P. Painter, Prof., Chem.

La Jolla:
M. N. Bramlette, Prof., Geology.
Walter M. Elsasser, Prof., Phys.

Los Angeles and vicinity:
T. Paul Guilford, Physician
Frits W. Went, Prof., Biol.
James C. Warf, Prof., Chem.
Norman Kharasch, Prof., Chem.
Max Mason, Prof., Physics
D. R. Drury, Prof., Physiol.
Carl Epling, Prof., Botany
Barclay Ray, Prof., Geology
M. L. Sands, Prof., Phys.
Verner Schomaker, Prof., Chem.
Linus Pauling, Prof., Chem.
A. H. Sturtevant, Prof., Genetics

CALIFORNIA—continued

Los Angles and vicinity—Continued
E. T. Bell, Prof., Math.
Harden M. McConnell, Prof., Chem.
Paul Saltman, Prof., Biochem.
John W. Mehl, Prof., Biochem.
David Appleman, Prof., Plant Physiol.
Jerry Donohue, Prof., Chem.
Howard J. Lucas, Prof., Chem.
Max Delbrueck, Prof., Biology
Seth B. Nicholson, Prof., Astron.
Jerome A. Benson, Prof., Chem.

Pacific Grove:
C. B. Van Niel, Prof., Biochem.
Ralph L. Bolin, Prof., Marine Biology

Pacific Grove—Continued
S. C. Rittenberg, Prof., Bacteriology
A. R. Moore, Prof., Physiol.

Palo Alto and Stanford:
Arthur C. Giese, Prof., Biol.
Albert V. Baez, Prof., Physics
Paul Kirkpatrick, Prof., Phys.
O. H. Robertson, Prof., Biol.

Redlands:
Robert H. Maybury, Prof., Phys. Chem.
John A. Day, Prof., Phys.

San Francisco and vicinity:
Roderick K. Clayton, Prof., Physics

COLORADO

Boulder:
Harold F. Walton, Prof., Chem.
Henry J. Richter, Prof., Chem.
Theodore S. Gilman, Prof., Chem.
John S. Meek, Prof., Chem.

Denver:
Jarvis B. Hadley, Geologist
Edwin D. McKee, Geologist

Golden:
Paul F. Bartunek, Prof., Physics
Gordon A. MacDonald, Volcanologist

Lakewood:
Tom S. Lovering, Geochemist
James Gilluly, Geologist

CONNECTICUT

Bridgeport:
Reino Hakala, Prof. Phys. Chem.

New Haven:
Herbert S. Harned, Prof., Chem.
Stephen Fleck, Psychiatrist
J. P. Trinkaus, Prof., Zoology
C. L. Remington, Prof., Zoology
Julian M. Sturtevant, Prof., Chem.
Raymond M. Fuoss, Prof., Chem.
Harold G. Cassidy, Prof., Chem.
Alexander Petrunkevitch, Prof., Zoology

New Haven—Continued
Earl D. Hanson, Prof., Protozoology
Arthur W. Galston, Prof., Plant Physiology
S. J. Singer, Prof., Chem.

Storrs:
Walter Landauer, Prof., Genetics
Harold P. Knauss, Prof., Physics
Hugh Clark, Prof., Embryology
R. M. DeCoursey, Prof., Zoology

DELAWARE

Newark: Kurt Wohl, Prof., Chem. Eng.

DISTRICT OF COLUMBIA

Washington:
Merle A. Tuve, Director, Dept. of Terrestrial Magnetism
J. Leon Shereshefsky, Prof., Chem.
Robert P. Barnes, Prof., Chem.
Elbert F. Cox, Prof., Math.
William B. Cook, Prof. Chem.
C. H. Corliss, Physicist
C. C. Kiess, Physicist
William W. Coblentz, Physicist
Stewart R. Cooper, Prof., Chem.
Herman Branson, Prof., Physics
Esper S. Larsen, Jr., Geologist
William F. Meggers, Spectroscopist
Earle K. Plyler, Physicist

FLORIDA

Coral Gables:
Clarence S. Rainwater, Prof., Physics

Tallahassee:
Guenter Schwarz, Prof., Physics
J. E. Leffler, Prof., Chem.

Tallahassee—Continued
Rowland E. Johnson, Prof., Chem.
Werner Herz, Prof., Chem.
Ernest Grunwald, Prof., Chem.
Russell J. Keirs, Prof., Chem.
Earl Frieden, Prof., Biochem.

ILLINOIS

Argonne Nat. Lab.:
Leo Seren, Physicist
Carbondale:
Carl C. Lindegren, Prof., Genetics
Champaign-Urbana:
Sol Spiegelman, Prof., Bacteriology
I. Gunsalus, Prof., Bacteriology
Edwin S. Lennox, Prof., Physics
Chicago:
Gilbert F. White, Prof., Geography
Nathan Sugarman, Prof., Chem.
Percival Bailey, Neuorogist
Harold C. Urey, Prof., Chem.
W. H. Zachariasen, Prof., Physics
Forrest F. Cleveland, Prof., Physics
H. L. Schlesinger, Prof., Chem.
Evanston:
Robert L. Burwell, Jr., Prof., Chem.

Evanston—Continued
R. K. Summerbell, Prof., Chem.
Arthur A. Frost, Prof., Chem.
L. Lorand, Prof., Biochem.
J. W. Hastings, Prof., Physiology
Herman Pines, Prof., Chem.
Malcolm Dole, Prof., Chem.
F. Basolo, Prof., Chem.
Allen S. Hussey, Prof., Chem.
I. M. Klotz, Prof., Biochem.
Arnold J. F. Siegert, Prof., Physics
Lemont:
Jack Schubert, Biochemist
C. M. Huddleston, Nuclear Physicist
Norris F. Hall, Chemist
Urbana:
H. E. Carter, Prof., Chem.
S. F. Luria, Prof., Chem.
J. L. Doob, Prof., Math.

INDIANA

Bloomington:
I. H. Herskowitz, Prof., Genetics
Harrison Shull, Prof., Chem.
Walter J. Moore, Prof., Chem.
Hermann J. Muller, Prof., Genetics
Frederic C. Schmidt, Prof., Chem.
Indianapolis:
John Forrester Pelton, Prof. Botany

Lafayette:
Karl W. Meissner, Prof., Physics
T. R. Palfrey, Jr., Prof., Physics
Richmond:
Howard W. Alexander, Prof., Math.
West Lafayette:
Robert W. Stanley, Prof., Physics

IOWA

Ames:
R. E. Rundle, Prof., Chem.
Walter R. Hearn, Prof., Biochem.
David E. Metzler, Prof., Biochem.
Iowa City:
F. Rohrlich, Prof. Theor. Physics
Willis B. Person, Prof., Chem.
Richard L. Hinman, Prof., Chem.
Stanley Wanzonek, Prof., Chem.
Russell Meyers, Prof., Surgery

Iowa City—Continued
J. R. Porter, Prof., Bacteriology
Stanley Bashkin, Prof., Nuclear Physics
J. M. Jauch, Prof., Theor. Physics
Charles Tanford, Prof., Chem.
Alexander I. Popov, Prof., Chem.
LeRoy Eyring, Prof., Chem.
Robert T. Tidrick, Prof., Surgery
J. C. Ehrenhof, Prof., Surgery

KANSAS

Lawrence:
G. Bonar Sutherland, Prof., Physiology
H. W. Barrett, Prof., Biochem.
J. A. Weir, Prof., Genetics
K. B. Armitage, Prof., Biology

Howard Matzke, Prof., Neuroanatomy
Philip Newmark, Prof., Biochem.
C. A. Leone, Prof., Zoology
A. W. Davidson, Prof., Chem.

MAINE

Brunswick:
Anton H. Gustafsen, Prof., Cytology
William C. Root, Prof., Chem.

Charles F. Huntington, Prof., Biology

MARYLAND

Baltimore:
- J. D. H. Donnay, Prof., Mineralogy
- H. Bentley Glass, Prof., Genetics
- B. W. Willier, Prof., Zoology
- Robert K. Burns, Prof., Embryology
- W. Barry Wood, Jr., Prof., Medicine
- Sidney P. Colowick, Prof.. Biochem.

Bethesda:
- Christian B. Anfinsen, Biochemist
- Clifford Grobstein, Biologist
- H. M. Kalckar, Biochemist
- E. R. Stadtman, Biochemist
- Harvey A. Itano, Chemist

Havre de Grace:
- R. H. Kent, Physicist

MASSACHUSETTS

Boston:
- Karl Sax, Prof., Botany
- Eugen M. Landis, Prof., Physiology
- M. Kent Wilson, Prof., Chem.
- Edgar L. Gasteiger, Jr., Prof., Neurophysiology
- Norbert Wiener, Prof., Math.
- James L. Gamble, Prof., Pediatrics
- William P. Murphy, Physician
- Adelbert Ames, Prof., Psychology
- B. F. Skinner, Psychologist

Cambridge:
- Martin E. Buerger, Prof., Geology
- Alfred V. Kidder, Archeologist
- Alfred S. Romer, Prof., Paleontology
- Louis F. Fieser, Prof., Chem.
- Kirtley F. Mather, Prof., Geology
- Kenneth V. Thimann, Prof., Biology
- Frank M. Carpenter, Prof., Biology
- Walter H. Stockmayer, Prof., Chem.
- E. C. Kemble, Prof., Physics

Cambridge—Continued
- Alexander Forbes, Prof., Physiology
- Oscar Zariski, Prof., Math.
- Charles D. Coryell, Prof., Chem.
- John T. Edsall, Prof., Chem.
- John R. Raper, Prof., Botany
- Ralph H. Wetmore, Prof., Botany
- John S. Waugh, Prof., Chem.
- Francis T. Bonner, Prof., Chem.
- S. S. Stevens, Psychologist
- Parry Moon, Prof., El. Eng.
- Victor F. Weisskopf, Prof., Physics
- D. P. Shoemaker, Prof., Chem.
- E. G. Boring, Psychologist
- James W. Beatty, Jr., Prof., Chem.
- Domina Eberle Spencer, Prof., Math.

Northampton:
- William T. Scott, Prof., Physics
- Kenneth W. Sherk, Prof., Chem.

Woods Hole:
- Albert Szent-Györgyi, Prof., Biol. Chemistry

MICHIGAN

Ann Arbor:
- Stanley A. Cain, Prof., Botany
- D. M. Dennison, Prof., Physics

Detroit:
- Philip G. Stansky, Prof., Microbiology

East Lansing:
- G. B. Wilson, Prof., Botany
- R. A. Fennell, Prof., Zoology
- Alfred Novak, Prof., Nat. Sci.

MINNESOTA

Minneapolis:
- I. M. Kolthoff, Prof., Chem.
- William N. Lipscomb, Prof., Chem.
- E. J. Meehan, Prof., Phys. Chem.
- John Schellman, Prof., Phys. Chem.
- Robert Livingston, Prof., Phys. Chem.
- M. B. Vissher, Prof., Physiol.
- E. B. Sandell, Prof., Chem.
- S. Bruckenstein, Prof., Phys. Chem.
- C. F. Koelsch, Prof., Chem.
- H. B. Steinbach, Prof., Zoology

MISSOURI

Columbia:
- Newell S. Gingrich, Prof., Physics

St. Louis:
- Philip A. Shaffer, Prof., Biochem.
- Edward V. Condon, Prof., Physics
- Viktor Hamburger, Prof., Zoology
- Hampton L. Carson, Prof., Zoology
- Franklin B. Shull, Prof., Physics
- Charles A. Waldron, Prof., Pathology

St. Louis—Continued
- David S. Hogness, Prof., Microbiology
- Herman T. Blumenthal, Director, Inst. of Expt. Path.
- Joseph Erlanger, Prof. Em., Physiology
- Michael Somogyi, Biochemist
- Barry Commoner, Prof., Plant Physiol.

MISSOURI—continued

St. Louis—Continued
- Carl V. Moore, Dean, School of Medicine
- Martin Kamen, Prof., Chem.
- Harrison D. Stalker, Prof., Zoology
- Theodor Rosebury, Prof., Bacteriology
- Arthur Kornberg, Prof., Microbiology
- Melvin Cohn, Prof., Microbiology
- Lindsay Heimholz, Prof., Chem.
- David Lipkin, Prof., Chem.
- Hallowell Davis, M.D., Director of Research

MONTANA

Bozeman:
- Charles N. Caughlan, Prof., Chem.
- C. Rulon Jeppesen, Prof., Phys.
- R. E. Lowney, Prof., Math.
- Charles C. Bradley, Dean, Division of Science
- Ludwig G. Browman, Prof., Zoology
- Kurt Rothschild, Prof., Physics
- P. C. Gaines, Prof., Chem.

NEBRASKA

Lincoln:
- Herbert Jehle, Prof., Physics
- N. A. Basoco, Prof., Math.
- Chester C. Camp, Prof., Math.
- Hugo Ribeiro, Prof., Math.
- W. G. Leavitt, Prof., Math.
- Theodore Jorgensen, Prof., Physics

NEW HAMPSHIRE

Sharon:
- Harlow Shapley, Prof., Astron.

NEW JERSEY

Berkeley Heights:
- J. R. Pierce, Physicist

New Brunswick:
- Oskar Wintersteiner, Prof., Chem.
- Vincent Groupe, Prof., Virology

Summit:
- G. H. Wannier, Physicist

Princeton:
- A. F. Buddington, Prof., Geology

Princeton—Continued
- Norman E. Steenrod, Prof., Math.
- C. N. Yang, Prof., Physics
- Elmer G. Butler, Prof., Zoology
- Colin S. Pittendrigh, Prof., Biology
- S. Lefschetz, Prof., Math.
- Oswald Veblen, Prof., Math.
- Harold F. Blum, Prof., Physiology
- John Tyler Bonner, Prof., Biology

NEW MEXICO

Albuquerque:
- Victor H. Regener, Prof., Physics

Socorro:
- Richard C. Sill, Prof., Phys.
- Marvin H. Wilkening, Prof., Phys.
- Kay R. Brower, Prof., Chem.

NEW YORK

Alfred:
- Clarence W. Klingensmith, Prof. Phys.

Brookhaven:
- Walter C. Hamilton, Chemist

Cold Spring Harbor:
- M. Demerec, Prof. Genetics

Ithaca:
- J. Wolfowitz, Prof. Math.
- Walter Zeit, Prof. Anatomy
- H. D. Block, Prof. Biological Chem.
- J. Barkley Rosser, Prof., Math.
- Robert A. Plane, Prof. Chem.
- Simon H. Bauer, Prof. Chem.
- John R. Johnson, Prof. Chem.
- J. L. Hoad, Prof. Chem.
- B. Widom, Prof. Chem.
- R. M. Hexter, Prof. Chem.
- A. Blomquist, Prof. Chem.

Ithaca—Continued
- P. J. Flory, Prof. Chem.
- J. E. Hedrick, Prof. Chem. Eng.
- Robert York, Prof. Chem. Eng.
- Walter D. Bonner, Jr., Prof. of Plant Phys.
- M. J. Sienko, Prof. Chem.

New York City:
- Gilbert Dalidorf, Pathologist
- Otto Loewi, Pharmacology, Physiology
- Max Theiler, M.D., Physiology
- Lewis G. Longsworth, Biochem.
- Duncan A. MacInnis, Phys. Chem.
- Leslie C. Dunn, Prof. Zoology
- Michael Heidelberger, Prof. Microbiol.
- Severo Ochoa, Prof. of Pharmacology

NEW YORK—continued

New York City—Continued
- L. P. Hammett, Prof. Chem.
- Theodore Shedlovsky, Prof. Chem.
- G. G. Simpson, Prof. Paleontology
- George W. Corner, Prof. Anatomy
- Leon Brillouin, Physicist
- Bernard D. Davis, Prof. Pharmacology
- Abraham White, Prof. Biochem.
- L. O. Kunkel, Botanist
- Alwin M. Pappenheimer, Jr., Prof. Microbiology
- P. P. Ewald, Prof. Physics
- Th. Dobzhansky, Prof. Zoology, Biology
- William H. Stein, Biochemist

New York City—Continued
- Rollin D. Hotchkiss, Biochemist
- Harry Most, Prof. Preventive Medicine
- F. E. Condon, Prof. Chem.
- D. Rittenberg, Prof. Biochem.
- G. L. Foster, Prof. Biochem.
- Zacharias Dische, Prof. Biochem.
- Stephen Zamenhof, Prof. Biochem.

Pleasantville:
- Rof Altchul, Prof. Chem.

Rochester:
- Johannes Holtfreter, Prof. Zoology

Syracuse:
- Peter G. Bergmann, Prof. Phys.

NORTH CAROLINA

Chapel Hill:
- John N. Couch, Prof. Botany
- Oscar K. Rice, Prof. Chem.
- Arthur Roe, Prof. Chem.

NORTH DAKOTA

Grand Forks:
- Theodore H. Harwood, Dean, School of Medicine
- Hubert J. Fromm, Prof. Biochem.

OHIO

Columbus:
- Melvin S. Newman, Prof. Chem.

Gambier:
- P. Rothemund, Prof. Chem.

Yellow Springs:
- C. Vernon Cannon, Prof. Physics

OKLAHOMA

Norman:
- J. Teague Self, Prof. Zoology
- Paul R. David, Prof. Zoology
- Arthur N. Bragg, Prof. Zoology
- George M. Sutton, Prof. Zoology
- George J. Goodman, Prof. Botany
- Wm. T. Penfound, Prof. Botany
- Norman H. Boke, Prof. Botany

OREGON

Corvallis:
- Kenneth Hedberg, Prof. Chem.
- A. V. Logan, Prof. Chem.
- R. W. Newburgh, Prof. Biochem.

PENNSYLVANIA

Haverford:
- Cletus Oaklye, Prof. Math.
- Louis C. Green, Prof. Astronomy
- Theodore B. Hetzel, Prof. Engineering

Philadelphia:
- C. W. Metz, Prof. Zoology
- Comfort A. Adams, Prof. Elec. Eng.
- Jean Piatt, Prof. Anatomy.
- Werner Henle, Prof. Virology
- D. Wright Wilson, Prof. Biochem.
- Hans Rademacher, Prof. Math.
- W. H. Gottschalk, Prof. Math.
- Nathan J. Fine, Prof. Math.
- Donald L. Kimmel, Prof. Anatomy
- Earle H. Spaulding, Prof. Microbiol.
- Geo. M. Piersol, Em. Prof. Medicine

Philadelphia—Continued
- Joseph Stokes, Prof. Pediatrics

Pittsburgh:
- David Halliday, Prof. Physics
- G. A. Jeffrey, Prof. Chemistry
- Henry S. Frank, Prof. Chem.
- T. H. Dunkelberger, Prof. Chem.
- John C. Donaldson, Prof. Anatomy
- Max A. Lauffer, Prof. Biophysics
- Martin Hanig, Prof. Biophysics

State College:
- Raymond Pepinsky, Prof. Phys.
- Robert W. Taft, Jr., Prof. Chem.
- Julian Eisenstein, Prof. Physics

Swarthmore:
- Wolfgang Köhler, Psychologist

RHODE ISLAND

Providence: G. Y. Rainich, Prof. Math.

TENNESSEE

Nashville:
C. W. Wright, Prof. Anatomy
L. E. Burgess, Prof. Physiol.

TEXAS

Austin:
Robert P. Wagner, Prof. Zool.
J. W. Foster, Prof. Bact.
Orville Wyss, Prof. Bact.
W. Frank Blair, Prof. Zool.

Houston:
M. King Hubbert, Geology, Geophysics

UTAH

Logan:
Melvin C. Cannon, Prof. Chem.
I. L. Bahler, Prof. Zool.

Salt Lake City:
Stanley Marcus, Prof. Microbiol.

VIRGINIA

Charlottesville: S. A. Mitchell, Prof. Astronomy

WASHINGTON

Seattle and vicinity:
H. Weston Blaser, Prof. Botany
Edwin A. Uehling, Prof. Phys.
Carl B. Allendoerfer, Prof. Math.

WISCONSIN

Madison:
William E. Stone, Prof. Physiol.
Karl Paul Link, Prof. Biochem.
Hans Ris, Prof. Zoology
John Emlen, Prof. Zoology
Harold R. Wolfe, Prof. Zoology
M. P. Backus, Prof. Botany
J. F. Stauffer, Prof. Botany
R. K. Meyer, Prof. Zoology
M. R. Irwin, Prof. Genetics
Sewall Wright, Prof. Genetics
Delmar C. Cooper, Prof. Genetics
R. A. Brink, Prof. Genetics
A. B. Chapman, Prof. Genetics

ALASKA

College:
John L. Burkley, Physicist
Albert C. Claus, Chemist

HAWAII

Honolulu:
Fred I. Gilbert, Jr., M. D.
Linus Pauling, Jr., M. D.

APPENDIX NO. II

EXHIBIT NO. 7

Following is the letter by which Dr. Pauling formally submitted the attached typewritten names of 9,235 persons in connection with his petition (no actual signatures were presented either to the U.N. or to the Subcommittee):

3500 Fairpoint Street
Pasadena, California
January 13, 1958

Mr. Dag Hammarskjold
Secretary-General
The United Nations
New York, N.Y.

Po 130

Sir:

On behalf of 9,235 scientists of many countries of the world, I submit herewith the accompanying petition urging that an international agreement to stop the testing of nuclear bombs be made now, as a first step toward a more general disarmament.

The petition is submitted by my 9,234 fellow scientists and me as individuals. No organization has been responsible for the planning or writing of the petition or for the collection of signatures.

The petition resulted from an address on Science in the Modern World given by me in the Chapel of Washington University, St. Louis, Missouri to the students and faculty of the University on May 15, 1957. The response to this address was so enthusiastic as to suggest that a statement be prepared to which American scientists could subscribe. I wrote the statement, which is the accompanying petition, on that day, and within a few days twenty-six other U.S. scientists had signed: Barry Commoner, Edward U. Condon, Charles D. Coryell, Leslie C. Dunn, Viktor Hamburger, Michael Heidelberger, I.H. Herskowitz, Herbert Jehle, Martin Kamen, Edwin C. Kemble, I.M. Kolthoff, Chauncey Leake, S.E. Luria, Max Mason, Carl V. Moore, Philip Morrison, Hermann J. Muller, Severo Ochoa, C.C. Price, Arthur Roberts, M.L. Sands, Verner Schomaker, Laurence H. Snyder, Oswald Veblen, M.B. Visscher, W.H. Zachariasen. Within two weeks the signatures of over 2,000 U.S. scientists had been obtained, and on the fourth of June 1957 I submitted the statement to the President of the United States of America.

In July 1957 I received a voluntary statement of adherence to the petition from all of the professors of science (forty in number) of the Free University of Brussels, and similar statements from scientists in several other countries. I later wrote to a few scientists in every country, asking that they sign the petition and obtain other signatures.

So far the petition has been signed by 9,235 scientists, of 44 countries. Among the signers are 36 Nobel Laureates, representing 12 countries. Their names are given in the first list (and repeated in

the main list). Separate lists are also given of 101 members of the Academy of Sciences of the United States of America, 35 Fellows of the Royal Society of London, England, and 216 Members and Correspondents of the Academy of Sciences of the U.S.S.R.

In some countries only a few distinguished scientists have signed the petition; an example is Sweden, with two signers, both Nobel Laureates. In others (Japan, Roumania) the effort seems to have been made by my correspondents to request nearly all of the scientists of the nation to sign. Sir C.V. Raman, of India, a Nobel Laureate in Physics, wrote that in his opinion every scientist in India would sign the petition if he had the opportunity; the number of Indian signers, 535, should not be taken to mean that many scientists are opposed. It is my opinion that the petition represents the feelings of the great majority of the scientists of the world.

We urge that an international agreement to stop the testing of nuclear weapons be made now. The details of the agreement should, of course, be such that it be effective, and that, so far as possible, it benefit all nations and all people equally, not one nation or group of nations preferentially. We urge that this agreement be made as a first step toward a more general disarmament, and we hope that later steps will be taken without delay.

It is not my belief that this problem is one that should be settled by scientists; it is instead one of importance to every person in the world. My colleagues and I feel, however, that it is worthwhile for us to express our opinion to you, as we have done with this petition, inasmuch as it is the scientists who have some measure of understanding of the complex factors involved in the problem, such as the magnitude of the genetic and somatic effects of the released radioactive materials. This may be illustrated by the statement of one of the signers of the petition, J.H. Burn, F.R.S., Professor of Pharmacology in the University of Oxford, that "We are particularly concerned about the role of uptake in the bones of children of radioactive strontium from the milk they drink".

We are also, of course, greatly concerned about the danger of outbreak of a cataclysmic war. We believe that international problems should be solved not by war, but by the application of man's power to reason - through arbitration, negotiation, international agreements, international law - and that a just and effective international agreement to stop bomb tests would be a good first step.

Respectfully yours,

Linus Pauling

Linus Pauling

LP:eh
enclosures

PETITION

to the

UNITED NATIONS

Urging That An International Agreement
To Stop the Testing of Nuclear Bombs
Be Made Now

Submitted on 13 January 1958

by

Professor Linus Pauling and 9234 Other Scientists

A PETITION TO THE UNITED NATIONS

We, the scientists whose names are signed below, urge that an international agreement to stop the testing of nuclear bombs be made now.

Each nuclear bomb test spreads an added burden of radioactive elements over every part of the world. Each added amount of radiation causes damage to the health of human beings all over the world and causes damage to the pool of human germ plasm such as to lead to an increase in the number of seriously defective children that will be born in future generations.

So long as these weapons are in the hands of only three powers, an agreement for their control is feasible. If testing continues, and the possession of these weapons spreads to additional governments, the danger of outbreak of a cataclysmic nuclear war through the reckless action of some irresponsible national leader will be greatly increased.

An international agreement to stop the testing of nuclear bombs now could serve as a first step toward a more general disarmament and the ultimate effective abolition of nuclear weapons, averting the possibility of a nuclear war that would be a catastrophe to all humanity.

We have in common with our fellow men a deep concern for the welfare of all human beings. As scientists we have knowledge of the dangers involved and therefore a special responsibility to make those dangers known. We deem it imperative that immediate action be taken to effect an internatinnal agreement to stop the testing of all nuclear weapons.

Linus Pauling

NOBEL LAUREATES AMONG SIGNERS

Nobel Laureates in Physics

Max Born	Germany	C. F. Powell	Great Britain
P.A.M. Dirac	Great Britain	C. V. Raman	India
W. Heisenberg	Germany	C. N. Yang (Resident in U.S.A.)	China
Tang-Dao Lee (Resident in U.S.A.)	China	Hideki Yukawa	Japan

Nobel Laureates in Chemistry

K. Alder	Germany	Leopold Ruzicka	Switzerland
A. Butenandt	Germany	N. N. Semenow	U.S.S.R.
Otto Hahn	Germany	R. L. M. Synge	Great Britain
Frederic Joliot	France	A. W. K. Tiselius	Sweden
Richard Kuhn	Germany	Harold Urey	U. S. A.
Linus Pauling	U. S. A.	Adolf Windaus	Germany

Nobel Laureate in Literature

Bertrand Russell	Great Britain

Nobel Laureates in Peace

Lord Boyd-Orr	Great Britain	Albert Schweitzer	France

Nobel Laureates in Physiology and Medicine

Jules Bordet	Belgium	W. P. Murphy	U. S. A.
Henry Dale	Great Britain	A. Szent-Gyorgyi (Resident in U.S.A.)	Hungary
Gerhard Domagk	Germany	Max Theiler	U. S. A.
Joseph Erlanger	U. S. A.	Hugo Theorell	Sweden
Hans Krebs	Great Britain	T. Reichstein	Switzerland
Otto Loewi	U. S. A.	G. H. Whipple	U. S. A.
Hermann Muller	U. S. A.		

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Members of the National Academy of Sciences

Total: 101

C. A. Adams - Emeritus Professor of Engineering, Philadelphia, Pennsylvania

J. W. Alexander - Professor of Mathematics, Institute of Advanced Studies, Princeton, New Jersey

P. Bailey - Professor of Pathology and Bacteriology, Neuropsychiatric Institute, Chicago, Illinois

E. T. Bell - Emeritus Professor of Mathematics, California Institute of Technology, Pasadena, California

E. G. Boring - Professor of Psychology, Harvard University, Cambridge, Massachusetts

M. N. Bramlette - Professor of Geology, Scripps Institution of Oceanography, La Jolla, California

L. Brillouin - Professor of Physics, Retired, New York, New York

R. A. Brink - Professor of Genetics, University of Wisconsin, Madison, Wisconsin

A. F. Buddington - Professor of Geology, Princeton University, Princeton, New Jersey

M. J. Buerger - Professor of Mineralogy and Petrography, Massachusetts Institute of Technology, Cambridge, Massachusetts

R. K. Burns - Staff Member, Department of Embryology, Carnegie Institution of Washington, Baltimore, Maryland

H. E. Carter - Professor of Chemistry, University of Illinois, Urbana, Illinois

W. W. Coblentz - Consulting Physicist, Washington, D. C.

E. U. Condon - Professor of Physics, Washington University, St. Louis, Missouri

J. N. Couch - Kenan Professor of Botany, University of North Carolina, Chapel Hill, North Carolina

G. Dalldorf - Pathologist, New York State Department of Health, Albany, New York

H. Davis - Director of Research, Central Institute for the Deaf, St. Louis, Missouri

M. Delbrück - Professor of Biology, California Institute of Technology, Pasadena, California

M. Demerec - Director of the Department of Genetics, Carnegie Institution of Washington, Cold Spring Harbor, Long Island, New York

D. M. Dennison - Professor of Physics, University of Michigan, Ann Arbor, Michigan

Th. Dobzhansky - Professor of Zoology, Columbia University, New York, New York

J. L. Doob - Professor of Mathematics, University of Illinois, Urbana, Illinois

L. C. Dunn - Professor of Zoology, Columbia University, New York, New York

J. T. Edsall - Professor of Biochemistry, Harvard University, Cambridge, Massachusetts

W. M. Elsasser - Professor of Physics, Scripps Institution of Oceanography, La Jolla, California

J. Erlanger - Emeritus Professor of Physiology, School of Medicine, Washington University, St. Louis, Missouri

K. Esau - Professor of Botany, University of California, Davis, California

L. F. Fieser - Sheldon Emery Professor of Organic Chemistry, Harvard University, Cambridge, Massachusetts

P. J. Flory - Mellon Institute, Pittsburgh, Pennsylvania

A. Forbes - Emeritus Professor of Physiology, Harvard Medical School, Cambridge, Massachusetts

R. M. Fuoss - Sterling Professor of Chemistry, Yale University, New Haven, Connecticut

J. L. Gamble - Emeritus Professor of Physiology, Harvard Medical School, Cambridge, Massachusetts

J. Gilluly - Geologist, United States Geological Survey, Denver Federal Center, Denver, Colorado

R. B. Goldschmidt - Emeritus Professor of Zoology, University of California, Berkeley, California

J. P. Guilford - Professor of Psychology, University of Southern California, Los Angeles, California

V. Hamburger - Professor of Zoology, Washington University, St. Louis, Missouri

L. P. Hammett - Professor of Chemistry, Columbia University, New York, New York

H. S. Harned - Emeritus Professor of Physical Chemistry, Yale University, New Haven, Connecticut

M. Heidelberger - Professor of Immunochemistry, Rutgers, The State University, New Brunswick, New Jersey

J. Holtfreter - Professor of Zoology, University of Rochester, Rochester, New York

M. K. Hubbert - Chief Consultant, General Geology, Shell Development Company, Houston, Texas

M. R. Irwin - Professor of Genetics, University of Wisconsin, Madison, Wisconsin

J. R. Johnson - Todd Professor of Chemistry, Cornell University, Ithaca, New York

W. P. Kelley - Emeritus Professor of Soil Chemistry, University of California, Berkeley, California

E. C. Kemble - Professor of Physics, Harvard University, Cambridge, Massachusetts

R. H. Kent - Ballistic Research Laboratories, Aberdeen Proving Ground, Maryland

A. V. Kidder - Professor of Anthropology, Cambridge, Massachusetts

W. Köhler - Psychologist, Swarthmore College, Swarthmore, Pennsylvania

A. Kornberg - Professor of Microbiology, School of Medicine, Washington University, St. Louis, Missouri

W. D. Lambert - Professor of Geophysics, United States Coast and Geodetic Survey, Retired, Canaan, Connecticut

E. M. Landis - George Higginson Professor of Physiology, Harvard Medical School, Boston, Massachusetts

E. S. Larsen, Jr. - Geologist, United States Geological Survey, Washington, D. C.

S. Lefschetz - Emeritus Professor of Mathematics, Princeton University, Princeton, New Jersey

K. P. Link - Professor of Biochemistry, University of Wisconsin, Madison, Wisconsin

Leo Loeb - Emeritus Professor of Pathology, Washington University, St. Louis, Missouri

L. G. Longsworth - Member, Physical Chemistry, Rockefeller Institute for Medical Research, New York, New York

H. J. Lucas - Emeritus Professor of Organic Chemistry, California Institute of Technology, Pasadena, California

D. A. MacInnes - Professor of Chemistry, Rockefeller Institute for Medical Research, New York, New York

Max Mason - Mathematician, Retired, Claremont, California

W. F. Meggers - Physicist, National Bureau of Standards, Washington, D.C.

C. W. Metz - Professor of Zoology, University of Pennsylvania, Philadelphia, Pennsylvania

S. A. Mitchell – Emeritus Director, McCormick Observatory, University of Virginia, Charlottesville, Virginia

H. J. Muller – Distinguished Service Professor of Zoology, Indiana University, Bloomington, Indiana

M. S. Newman – Professor of Chemistry, Ohio State University, Columbus, Ohio

S. B. Nicholson – Astronomer, Retired, Mount Wilson Observatory, Pasadena, California

S. Ochoa – Professor of Biochemistry, New York University College of Medicine, New York, New York

L. Pauling – Professor of Chemistry, California Institute of Technology, Pasadena, California

A. Petrunkevitch – Emeritus Professor of Zoology, Yale University, New Haven, Connecticut

J. R. Pierce – Director of Electronics Research, Bell Telephone Laboratories, Murray Hill, New Jersey

D. Rittenberg – Professor of Biochemistry, College of Physicians and Surgeons, New York, New York

O. H. Robertson – Emeritus Professor of Pathology and Bacteriology, Stanford University, Stanford, California

A. S. Romer – Alexander Agassiz Professor of Zoology, Harvard University, Cambridge, Massachusetts

Karl Sax – Professor of Botany, Harvard University, Cambridge, Massachusetts

H. I. Schlesinger – Emeritus Professor of Chemistry, University of Chicago, Chicago, Illinois

P. A. Schaffer – Professor of Biochemistry, School of Medicine, Washington University, St. Louis, Missouri

H. Shapley – Paine Professor of Astronomy, Retired, Harvard University, Cambridge, Massachusetts

T. Shedlovsky – Associate Member, Physical Chemistry, Rockefeller Institute for Medical Research, New York, New York

G. G. Simpson – Curator, American Museum of Natural History, New York, New York

B. F. Skinner – Professor of Psychology, Harvard University, Cambridge, Massachusetts

E. E. Snell – Professor of Biochemistry, University of California, Berkeley, California

G. L. Stebbins – Professor of Genetics, University of California, Davis, California

N. E. Steenrod – Professor of Mathematics, Princeton University, Princeton, New Jersey

S. S. Stevens – Professor of Psychology, Harvard University, Cambridge, Massachusetts

W. H. Stockmayer – Professor of Physical Chemistry, Massachusetts Institute of Technology, Cambridge, Massachusetts

A. H. Sturtevant – Professor of Genetics, California Institute of Technology, Pasadena, California

A. Szent-Györgyi – Director of Research, Institute of Muscle Research, Marine Biological Laboratory, Woods Hole, Massachusetts

K. V. Thimann – Professor of Plant Physiology, Harvard University, Cambridge, Massachusetts

E. C. Tolman – Professor of Psychology, Retired, University of California, Berkeley, California

M. A. Tuve – Director, Department of Terrestrial Magnetism, Carnegie Institution of Washington, Washington, D. C.

C. B. Van Niel – Herzstein Professor of Biology, Hopkins Marine Station, Pacific Grove, California

O. Veblen – Professor of Mathematics, Institute of Advanced Study, Princeton, New Jersey

M. B. Visscher – Professor of Physiology, University of Minnesota, Minneapolis, Minnesota

V. F. Weisskopf – Professor of Physics, Massachusetts Institute of Technology, Cambridge, Massachusetts

F. W. Went – Professor of Plant Physiology, California Institute of Technology, Pasadena, California

R. H. Wetmore – Professor of Botany, Harvard University, Cambridge, Massachusetts

R. C. Williams – Professor of Biophysics, University of California, Berkeley, California

D. W. Wilson – Professor of Physiological Chemistry, University of Pennsylvania, Philadelphia, Pennsylvania

O. Wintersteiner – Director, Division of Organic Chemistry, Squibb Institute for Medical Research, New Brunswick, New Jersey

S. G. Wright – Leon J. Cole Professor of Genetics, University of Wisconsin, Madison, Wisconsin

W. H. Zachariasen – Professor of Physics, University of Chicago, Chicago, Illinois

O. Zariski – Professor of Mathematics, Harvard University, Cambridge, Massachusetts

FELLOWS OF THE ROYAL SOCIETY OF LONDON

Total, 35

J.D. Bernal, Professor of Physics, Birkbeck College, University of London

M. Born, Emeritus Professor of Natural Philosophy, University of Edinburgh

Lord Boyd-Orr, D.S.O., M.C., Lately Director-General, Food and Agriculture Organization, United Nations; Brechin, Angus, Scotland

J.H. Burn, Professor of Pharmacology, University of Oxford

Sir Wilfrid Clark, Dr. Lee's Professor of Anatomy, University of Oxford

J.W. Cook, D.Sc., Vice-Chancellor, The University, Exeter

J.W. Cornforth, D. Phil., Organic Chemist, National Institute for Medical Research, London

C.A. Coulson, Rouse Ball Professor of Mathematics, Oxford University

T.G. Cowling, Professor of Applied Mathematics, University of Leeds

E.G. Cox, Professor of Inorganic and Structural Chemistry, University of Leeds

H.S.M. Coxeter, Professor of Mathematics, University of Toronto

Sir Henry Dale, O.M., G.B.E., Formerly Director of the National Institute for Medical Research, London

P.A.M. Dirac, Lucasian Professor of Mathematics, University of Cambridge

H.M. Fox, Emeritus Professor of Zoology, University of London

J.B.S. Haldane, Weldon Professor of Biometry, University College, University of London

W.K. Hayman, Professor of Pure Mathematics, Imperial College of Science and Technology, London

G. Herzberg, D.Sc., Director, Division of Pure Physics, National Research Council of Canada, Ottawa

D.M.C. Hodgkin, Reader in X-ray Crystallography, Oxford University

J.S. Huxley, D.Sc., London

P. Kapitza, Ph.D., Institute for Physical Problems, Moscow, U.S.S.R.

H.A. Krebs, Whitley Professor of Biochemistry, University of Oxford

Dame Kathleen Lonsdale, D.B.E., Professor of Chemistry, University College, London

S. M. Manton, Reader in Zoology, University of London King's College

D. M. M. Needham, Sc.D., Biochemist, Cambridge University

J. Needham, Sc.D., Sir William Dunn Reader in Biochemistry, University of Cambridge

A. C. Offord, Professor of Mathematics, Birkbeck College, University of London

F. A. Paneth, Ph.D., Director of the Max Planck Institut für Chemie, Mainz, Germany

M. F. Perutz, Lecturer in Biophysics, University of Cambridge, and Honorary Director of the Medical Research Council Unit for the Study of the Molecular Structure of Biological Systems

N. W. Pirie, Head of the Biochemistry Department, Rothamsted Experimental Station, Harpenden

R. V. Pitt-Rivers, Ph.D., Department of Biochemistry, National Institute for Medical Research, London

M. Polanyi, Professor of Social Studies, University of Manchester

C. F. Powell, Melville Wills Professor of Physics, University of Bristol

Sir Venkata Raman, National Research Professor of Physics, Bangalore, India

The Earl Russell, Penrhyndeudraeth, Merioneth, North Wales

F. Sanger, Ph.D., Member of the staff of the Medical Research Council; Sir William Dunn Institute of Biochemistry, Cambridge

SIGNATURES OF SOVIET SCIENTISTS

Total number, 216

Moscow:

A. Nesmeyanov, Organic Chem.

I. Bardin, Metallurgy

P. Kapitza, Physics, Foreign Assoc. N.A.S.

K. Ostrovitianov, Polit. Econ.

D. Scherbakov, Geochemistry

V. Vinogradov, Russian Language

A. Vinogradov, Geochemistry

B. Vvedenski, Radiophysics

A. Schubnikov, Crystallography

N. Andreev, Acoustics

E. Pavlovski, Zoology, Leningrad

A. Kursanov, Physiology

V. Kirillin, Heat Technology

T. Lisenko, Genetics

N. Muskhelishvily, Mechanics, Tbilisi

E. Zukov, History of Japan

V. Siforov, Radio

A. Oparin, Biochem. of Plants

A. Bakulev, Surgery

I. Eichfeld, Botanics, Tallin

A. Efimov, History

S. Mironov, Geology of Oil

N. Semenov, Chemical Physics

A. Topchiev, Organic Chem.

D. Skobeltzyn, Physics

V. Engelghart, Biochemistry

A. Blagonravov, Mechanics

I. Petrovski, Mathematics

M. Lavrentiev, Mathematics

V. Nemchinov, Economics

A. Arbusov, Organic Chem.

I. Artobolevski, Mechanics

A. Palladin, Biochem., Kiev

A. Tupolev, Aircraft Design.

M. Keldysh Mathematics

N. Sissakyan, Biochem. of Plants

A. Berg, Radio

V. Kotelnikov, Radio

U. Kobzarev, Radio

K. Satpaev, Geology, Alma-Ata

P. Lobanov, Agriculture

N. Schatski, Geology

N. Belov, Crystallography

S. Volfkovich, Inorg. Chem.

A. Bochvar, Metallurgy

V. Kargin, Physical Chem.

A. Dorodnitsin, Geophysics

P. Kochina, Hydrodynamics

N. Bogolubov, Mathematics

B. Alexandrov, Hydrotechnics

S. Khristianovich, Mechanics

V. Ambartsumyan, Astronomy, Erevan

A. Terpigorev, Mining

G. Kriziszanovski, Power

M. Aliev, Geology, Baku

Y. Peive, Soil Science, Riga

G. Charyev, Philosophy, Ashkhabad

A. Deborin, Philosophy, History

A. Kolmogorov, Mathematics

I. Tiurin, Soil Science

I. Gerasimov, Physical Geography

S. Medvedev, Organic Chem.

D. Korsyinsky, Petrography

K. Nenadkhevich, Chemistry, Mineralogy

N. Rikalin, Welding

V. Kondratiev, Physical Chem.

S. Strumilin, Economics

S. Obnorsky, Russian Linguistics

K. Vlasov, Geochemistry

I. Nikolaev, Transport

V. Dikushin, Engineering

H. Abdullaev, Petrography, Tashkent

F. Konstantinov, Philosophy

M. Agoshkov, Mining

S. Vekshinsky, Electronics

S. Skochinski, Mining

I. Vinogradov, Mathematics

I. Achunbaev, Surgery, Frunze

U. Matulis, Physical Chem., Vilnus

P. Rebinder, Physical and Colloidal Chem.

A. Beteckhtin, Mineralogy

L. Sedov, Mechanics

N. Bekhtin, Organization, Mechanization and Economics of Construction Works

A. Schukin, Radio

I. Knunyanz, Organic Chem.

V. Schuleikin, Sea Physics

A. Mikulin, Internal Combustion Engines

M. Dubinin, Sorbtional processes

V. Sukachev, Botanics

L. Landau, Physics

N. Zizin, Botanics

S. Sobolev, Mathematics

N. Bruevich, Mechanics

A. Samarin, Metallurgy

B. Kazanski, Organic Chem.

M. Tikhomirov, History of the USSR

M. Stirikovich, Heat Technology

T. Khachaturov, Economics of Transportations

M. Kapelushnikov, Mining

G. Alexandrov, Philosophy

M. Mikheev, Heat Technology

V. Sokolovski, Mechanics

I. Kazarnovski, Inorganic and General Chemistry

K. Lavrovski, Chemistry of Oil

M. Mitin, Philosophy

V. Shaposhnikov, Technical Microbiology

A. Gorinov, Transport

N. Nuszdin, Genetics

I. Kibel, Mathematics

N. Piksanov, Russian Lit. Leningrad

M. Pavlov, Metallurgy

A. Predvoditelev, Physics

A. Mikhailov, Astronomy, Leningrad

A. Polkanov, Petrography, Leningrad

N. Dolszal, Heal Technology

A. Frumkin, Physical Chem.

C. Bernshtein, Mathematics

A. Tikhonov, Geophysics

B. Stechkin, Heat Technology

E. Varga, Economics

I. Chernyaev, Inorganic Chem.

N. Strakhov, General Geology

S. Barhudarov, Linguistics

I. Vekua, Applied Math.

V. Kuprevich, Botanics, Minsk

N. Zitovich, Soil Mechanics, Engineering Geology

O. Levizki, General Geology

S. Umarov, Physics, Stalinbad

M. Iovchuk, History of Philos.

S. Lebedev, Computing Devices

A. Alikhayan, Physics

E. Blinov, Geophysics

S. Arkhangelski, History, Gorky

V. Kuznezov, Solid State Physics, Tomsk

E. Korovin, International Law

L. Sretenski, Mechanics

A. Balandin, Organic Chem.

V. Lazarev, History of Arts

L. Pontryagin, Mathematics

I. Bruk, Electrotechnics

A. Maximov, Natural History

L. Druszinin, History of the USSR

I. Trakhtenberg, Economics

I. Smalgauzen, Evolutionary, Morphology

E. Kosminski, History

A. Larionov, Elect. Engineering

A. Minz, Radio

A. Krilov, Chemistry and Processing of Oil

V. Belousov, General Geology

V. Overkhovich, Biochemistry

A. Vishnevski, Surgery

A. Myasnikov, Therapeutics

V. Timakov, Microbiology

A. Letavet, Hygiene

V. Vinogradov, Therapeutics

F. Krotkov, Hygiene

A. Braunstein, Biochemistry

K. Skryabin, Helminthology

M. Sokolov, Agriculture

S. Demidov, Agriculture

V. Boltinski, Eng. Mechanics

I. Sharov, Hydrotechnology

M. Rostovzev, Cattle Breeding

A. Imshenezki, Gen. Microbiol.

K. Koshtoyanz, Comparative Physiology

V. Riszkov, Botanics

L. Shevyakov, Mining

I. Minz, History

L. Stern, Physiology

A. Grigoriev, Geography

L. Lusternak, Mathematics

D. Zernov, Electronics

I. Maiski, History

M. Kammari, Philosophy

S. Sarkisov, Neuropathology

V. Parin, Physiology

A. Nesterov, Therapeutics

I. Davidovski, Pathological Anatomy

V. Chernigovski, Physiology

S. Mardashev, Biochemistry

N. Konovalov, Neuropathology

S. Severin, Biochemistry

I. Sinyagin, Agrochemistry

N. Sherbinovski, Entomology

I. Varunyanz, Plant Selection

P. Konstantinov, Agriculture

E. Liskun, Cattle Breeding

M. Melnikov, Pedagogics

A. Popov, Building Materials

V. Masonov, Building Structures

G. Kuznetzov, Structure of Buildings

K. Kartashev, Ferroconcrete Structures

K. Alabyan, Architecture

V. Svetlichni, Organization, Mechanization and Economics of Construction Works

V. Mislin, Architecture

G. Gradov, Architecture of Public Buildings

B. Mezenzev, Architecture

P. Spishov, Sanitation Technique

S. Bashinski, Organization, Mechanization and Economics of Construction Works

V. Burman, Architecture

S. Skazkin, History of Western Europe

A. Kalashnikov, Physics

B. Rubanenko, Architecture

A. Vlasov, Architecture

V. Ovsyankin, organization, Mechanization and economics of Construction Works

A. Mordvinov, Architecture

V. Kucherenko, Organization, Mechanization and Economics of Construction Works

V. Saprikin, Organization, Mechanization and Economics of Construction Works

I. Loveiko, Architecture

N. Bilinkin, History of Architecture

G. Simonov, Architecture

P. Krasilnik, Building Structures

G. Ludvig, Architecture

N. Chetvertukhin, Mathematics

B. Orlov, Geography

V. Shatskaya, Pedagogics

SIGNATURE OF AUSTRIAN SCIENTIST

Total number, 1

Wien:

Dr. Robert Stiebinger, University Professor

SIGNATURES OF AUSTRALIAN SCIENTISTS

Total number, 8

Adelaide:

L. H. May, Univ. Lecturer

A. Kerr, Univ. Lecturer

J. W. Holmes, Scientific Res.

N. G. Marinos, Univ. Lecturer

T. J. Marshall, Scientific Res.

Canberra:

Bart J. Bok, Astronomer

Hobart (Tasmania):

Ernest E. Kurth, Prof. of Chem.

Melbourne:

Raynor C. Johnson, Master of Queen's College

SIGNATURES OF BELGIAN CONGO SCIENTISTS

Total number, 6

Leopoldville:

Elliott, F. G., Dr.Sc., S.J., Prof.

Charette, J. J., D.Sc., Professor

Bouillon, Albert, D.Sc., Prof.

Vincent, J., M.D., Professor

Bartholome, Paul, Ph.D., F.G.S. Professor

Van Coillie, Roger, D.Sc., Prof.

SIGNATURES OF BELGIUM SCIENTISTS

Total number, 41

Brussels:

Jules Bordet, Professor, Physiology

Universite Libre de Bruxelles

L. de Brouckere
Paul Brien
Herbert Chantrenne
J. Geheniau
J. F. Cox
F. H. van den Dungen
Paul Janssens
G. Bontemps
A. Spitaels
H. Mandel
Verstaeten
A. Jenard
R. Van Geen
G. Sylin
C. Stochmans
R. Pankowski
G. Vanderhaeghe
J. Sacton
X. Hubaut
S. Deutsch
Georges Papy
Jean Brachet
Francine Vanderhaeghe
W. L. De Keyser
P. Baudoux
R. Debever
Ph. Ronsmans
J. Hougardy
J. Jedwab
Pierre Decroly
M. Demeur
A. Van Der Schrick
F. Englert
T. DeVooght
Y. De Keghel
J. Kestens
M. Rene
R. Bastin
M. Huyberechts
G. Mayne

SIGNATURES OF BRAZILIAN SCIENTISTS

Total number, 92

Curitiba:

Newton Freire-Maia, Geneticist

Ademare Freire-Maia, Geneticist

Danuneia Urban, Zoologist

Bernadete D. Lucas, Zoologist

Ralph J. G. Hertel, Botanist

Anzelo Molfi, Parasitologista

Oscar Palmquist, Bacteriologist

Milton Giovannoni, Pathologist

Demosthenes M. Sarmento, Virologist

Oswaldo S. Fantaura, Fitopatologia

Sileno Grillo Soares, Entomologist

Azor de Oliveira Cruz, Physiology

Piad Salamuni, Geologist

Antonio Quelce Salzado, Geneticist

Lia Villar de Paucena, Zoologist

Ayrtondellatt, Botanist

Astolpho Macedo Souza, Virologiota

S. Schlog, Baceriologist

Orlando Hecke, Bacteriologist

Ruy Santos, Pathologist

Lycio Grein de Castro Vellozo, Bacteriologist

Mario Voronski, Fitopatologia

C. W. Bautz, Biochemist

Porto Alegre:

Antonio Rodrigues Cordeiro, Genetics

Francisco M. Salzano, Geneticist

Casemiro V. Tondo, Biophysicist

Guiomar R. Bier, Genetics

Loya Ceyus, Geneticist

Luiz Pilla, Chemist

Antonio B. J. Batista Todesco, Radiochemist

Falavio Serogoy, Chemist

Alarich R. Schultz, Botanist

Helga Winge, Genetics

Jorge Alberto Petersen, Genetics

Vena Marques, Geneticist

Ary Nunes Tietböhl, Prof. Math

E. C. Jaeger, Genetics

Aufueris Cauduro, Geologia & Paleontologia

Celso Paulo Jaeger, Zoology

Yvonne Sanguinetti, Micropaleontologia

Salvador:

Cora de Moura Pedrura, Prof. de Biologia

Mary Santos Silva, Prof. Geograpfia

F. Chalus, Prof. Zoologia

Huys Barreto, Assist. Radiologia

Lucy Isabel Peisiglo, Instr. de Biologia

S. de Azevedo, Antropologia

Aristidus da Silva Gomes, Prof. de Mathematics

Edith M. da Abeu, Prof.

C. Basto, Assist. Sci., Neurol.

Julieta Guinarates, Assist. Zoologio

Wilma N. Piuto, Assist. Voluntaria de fisiologial Animal

C. M. Curvello Guma, Instr. Paleontologia

Piracicaba:

Erico R. Nobre, Economista

Ronaldo M. Barbosa da Silva, Eng. Agronomo

Warwick E. Kerr, Geneticista

Jose T. do Amaral Gurgel, Geneticista

J. Bergamin, Entomologia

Moacyr C. do Brasil Sobro, Quimica Agricola

Henrique Paulo Haag, Bioquimica

Alcides Carvalho, Eng. Agr.

Francisco F. de Toledo, Eng. Agr.

Celso L. Moraes, Zootecnia

Rodolpho Camargo, Microbiologista

F. G. Brieger, Genetica

A. Cervellini, Fisica

Jose Soubine Sobrinho, Eng. Agronomo

Almiro Blumenschein, Geneticista

E. Malavolta, Bioquimica

Otto J. Crocomo, Bioquimica

Antonio Trivelin, Zootecnica

Eujandir de Lima Orsi, Eng. Agronomo

Walter R. Jardim, Zootecnia

Sinval G. Filho, Zootecnia

Sebastiana Joly, Microbiologista

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J. de Mello Aires, Eng. Agr.	Helcio Falanghe, Eng. Agr.
Jayme Rocha de Almeida, Diretor I.Z.	Rahme Nelly Neder, Eng. Agr.
Ferdinando Galli, Eng. Agr.	Jesus Marden dos Santos, Fisica e Meteorologia
F. Pimentel Gomes, Matematica e Estatistica	Junto Moretti Filho, Engenharia e Topografia
Z. C. Maranhao, Entomologia	Domingos Gallo, Entomologia
Francisco A. M. Mariconi, Zoologia	S. de Toledo Piza, Jr., Zoologia
Luiz Gonzaga E. Lordello, Zoologia	Adiel Paes Leme Zamitte, Zoologia
Alcides G. Zagatto, Economista	Felisberto Pinto Monteiro, Biologista
Marco A. G. Cecchini, Chemistry	Luiz R. M. Pitombo, Chemistry
Ernest Giesbrecht, Chemistry	Eurico de Carvalho Filho, Chem.
Giuseppe Cilento, Chemistry	Marcello de Moura Campos, Chem.
Geraldo Vicentini, Chem.	Madelaine Perrier, Chem.
Renato G. Cecchini, Chem	Jose Moacyr Vianna Coutinho, Mineraology
William G. R. de Camargo, Crystallography	Paschoal Senise, Chemistry
Florestan Fernandes, Sociology	Erasmo G. Mendes, Physiology
Candido L. da Silva Dias, Math.	Fernando de Azevedo, Sociology
Antonio Soares Amora, Philology	Armando Tonioli, Philology
J. Cruz Costa, Philosophy	Aroldo de Azevedo, Geography
Milton da Silva Rodrigues, Statistis.	Jose Goldemberg, Physics
Elly Silva, Physics	Reynaldo Saldanha de Gama, Mineralogy
A. Brito da Cunha, Biology	Adlopho Martins Penha, Biology
M. Rocha e Silva, Physiology	Eduardo Navajas, Biology
R. L. Araujo, Biology	J. Pinto da Fonseca, Biology

J. R. Meyer, Biology

O. Sala, Physics

C. B. de Lyra, Math.

Alexandre A. Martins Rodrigues, Mathematics

Omar Catunda, Mathematics

P. Mello Freire, Biology

L. H. Jacy Monteiro, Math.

Chaim S. Honig, Mathematics

Edison Farah, Mathematics

Simao Mathias, Chemistry

Rio de Janeiro:

Americo Grosemann, Eng. Agronomo, Professor

Fernando Costa Pereira

Edmundo S. Dositto

Arnaldo G. Medeiros

Walter Augusto G. Braun

Dalmo C. Giasuitti

Evandro Ferray Duarte

Alberto de Figueirido Renteado

Romulo P. Goncalves

Lenita Sobral do Nascimento Duarte

Johanna Dobereiner

Rio Grande:

S. A. Kremer Luz, Eng. Agronomo

Gilluito F. Fonseca, Eng. Agronomo

O. P. Grokeybia, Eng. Agr.

Nelson S. Peters, Eng. Agron.

Floriano F. Gumares, Eng. Agr.

Padre Jose Pereira de Sousa, Professor

Sao Paulo:

Mario Schönberg, Physicist

Manoel Becker, Eng. Agronomo

Francisco De Paula Assis Med. Veterinario

Alfonso Tundisi, Eng. Agronomo

Mario Ithamar Montagnini, Eng. Agronomo

Jorge Macario de Mello

Henrique F. Raimo, Med. Veterinario

Geraldo Lemeda Rocha, Eng. Agronomo

Leovigildo P. Jordao, Med. Veterinario

Jose Marques dos Reis, Veterinario

Dinival Martinelli, Eng. Agronomo

Luiz Paulin Neto, Eng. Agronomo

Baldomero Rey Garcia

Pedro F. Gouveia, Med. Veterinario

Recife:

Ricardo Carvalho Ferreira, Prof., General and Inorganic Chemistry

SIGNATURES OF CANADIAN SCIENTISTS

Total number, 23

Saskatoon:

R. Fischer, Ph.D., Lecturer in Biochemistry

Leon Katz, Professor, Physics

Winnipeg:

Benjamin G. Hogg, Assoc. Prof. of Physics

Fred M. Kelly, Assoc. Prof. of Physics

M. E. Kettner, Asst. Prof of Physics

Toronto:

H.S.M. Coxeter, Professor, Mathematics

Ottowa:

G. Herzberg, Physicist

Hamilton:

A. T. Hutcheon, Chemist

C. B. Cragg, Chemist

V. A. Vyas, Chemist

J. S. Norman, Chemist

K.A.H. Adams, Chemist

W.A. Harrison, Chemist

Eileen Betts, Chemist

W. R. Song, Chemist

B. C. Young, Physicist

E. Hall, Physicist

I. R. Williams, Physicist

R. M. Goodman, Physicist

Wm. J. King, Physicist

R. G. Summerfill, Physicist

A. B. McLay, Physicist

M. W. Johns, Physicist

SIGNATURES OF CEYLONESE SCIENTISTS

Total number, 27

Colombo:

Eric L. Fonseka, Prof. Chem.

M.A.V. Devanathan, Lect. Chem.

P.P.G.L. Siriwardene, Lect. Chem.

T. Thirunamachandran, Asst. Lect. Chem.

M.L.T. Kannangara, Lect. Physics

T.de S. Mutucumarana, Lect. Physics

L.L. Baggerly, Lect. Physics

D.A. Dissanaike, Lect. Physics

M.S. Gangadharan, Lect. Math.

D.V.A.S. Amarankara, Lect. Math.

T.S. Tambiah, Lect. Bot.

. Fernando, Prof. Zoology

T. Cruez, Lect. Zoology

C.M. Fernando, Asst. Lect. Zoology

M.U.S. Sultanbawa, Lect. Chem.

G.P. Wannigama, Lect. Chem.

Miss W.P.D. Peries, Asst. Lect. Chem.

A. W. Mailvaganam, Prof. Physics

C. Dahanayake, Lect. Physics

S.P. Baliga, Lect. Physics

T. Thambyahpillai, Lect. Physics

C. Eliezer, Prof. Math.

S. Nadaraser, Reader Math.

B.L.T. de Silva, Prof. Bot.

R.N. de Fonseka, Asst. Lect. Bot.

P. Kirtisinghe, Reador Zoology

A.C.J. Waerepoon, Lect. Zoology

SIGNATURES OF CHINESE SCIENTISTS

Total number, 3

Peking:

Hu Yui-Hsun, Academy of Sciences

Chen Ning Yang, Professor, Princeton, N. J.

Tsung-Dao Lee, Professor, Physics, New York

SIGNATURES OF COLOMBIAN SCIENTISTS

Total number, 34

Bogota:

Enrique Perez Orbalaez, Botanica aplicada

Carlos Vasquez, Hidlografo

Luis Patino Camargo, Medico

Hernando Franco Sanchez, Ingeniero

Guillermo Munoz Rivas, Laboratorista

Jorge Bejarano, Medico

Augusto Gast Galvis, Medico

Luis Maria Murillo, Entomologo

Dario Rozo M., Ingeniero

Alfredo D. Bateman, Ingeniero

Gustavo Perry, Prof. Matematicas

Pablo Casas, Prof. Matematicas

Juan Jacobo Munoz, M.D.

Fernando Rosas, M.D.

Tergio Elias Ortiz, Dr. en Cencias Sociales

Francisco Llenas, Ingeniero Civil

Alfred Artimduaga, M.D.

Jose Ignacio Ruiz, Geodesta

D. Daverde, Ingeniero Civil

A. M. Barriga Villalba, Quimico

Ernesto Guhl, Geografo

Daniel Mesa Cernal, Agronomo

Carlo Federici, Ingeniero

Luis Lopez De Mesa, Medico

Kalman C. Mezey, Medico

Calixto Torres Umana, Medico

Sven Zethelius, Ingeniero

Leopoldo Guerra Portocarrero, Prof. Matematicas

Manuel Casabianca Pizand, Prof. Matematicas

Egon Lichtenberger, M.D.

Horacio Parra, M. D.

Juan Dugual, Occtropologo

Ondre Brianolleros, M.D.

Guillermo U. Valla, M.D.

SIGNATURES OF CZECHOSLOVAKIAN SCIENTISTS

Total number, 259

Praha:

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As. Kozak, Physical culture

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Dr. R. Retovsky, Plant physiologist

Milan Hasek, Scientific worker

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Dr. Kohoutova, Microbiologist

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Dr. Dolezilova, Microbiologist

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V. Hervert, Mycologist

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K. Slama, Insect physiologist

Dr. J. Veber, Pathologie hmyzu

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Dr. Z. Rehacek, Microbiologist

Ing. J. Svobodova, Plant virologist

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O. Lysenko, Bacteriologist

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Prof. MUDr Frant. Lenoch, Prednosta fysiatr. a balneol. ustavu

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Rudolf Vavra, Dr. M. Sc., Prof. Pathol. Physiology

Vlastimil Vrtis, Sc. D., Prof. Histology, Embryology

Jiri Beran, M.D., Lect. Legal Med.

Vladimir Dvorak, M.D., Gen. Hygiene

Jaromir Fric, M.D., Lect. Sport Med.

Jan Hybasek, Dr. M. Sc., Otorhinolaryngology

Jan Hromada, M.D., Anatomy

Bretislav Janousek, M.D., Prof. Dermatovenerology

Jan Kebort, M.D., Lect. of Operative Surgery

Stanislav Krakora, M.D., Prof. Psychiatry

Jaroslav Melka, M.D., Prof. Physiology

Jaroslav Ondracek, M.D., Ass. Prof. Infec. Diseases

Josef Pazourek, Dr. M. Sc., Prof. Obstetrics and Gynecology

Jaroslav Prochazka, M.D., Prof. Surgery

Vilem Santholzer, M.D., Prof. Physics

Jaroslav Snopek, M.D., Ass. Prof. Surgery

Miroslav Sorel, Dr. M. Sc., Prof. Neurology

Jaroslav Vavrda, M.D., Prof. Orthopaedic Surgery

Bratislava:

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Prof. Dr. Juraj Anatal, Prednosta ustavu fyziologie

Doc. Dr. Vladimir Vrsansky, Prednosta ustavu vseob. biologie

Prof. Dr. Anton Cala, Prednosta ocnej

Doc. Dr. Stefan Velgos, Prednosta stomatologickej

Prof. Dr. Juraj Hensel, Prednosta fyziatrickej

Prof. Dr. Herman Hrsek, Prednosta ustavu sudneho

Prof. Dr. Jan Corvenansky, Prednosta ortopedickej

Prof. Dr. Svetozar Stefanik, Prednosta I. zenskej a porodnickej

Prof. Dr. Frantisek Klein, Prednosta ustavu patologickej anatomie

Akademik Karol Siska, Prednosta II. chirurgickej

Akademik Vojtech Mucha, Prednosta hygienickeho ustavu

Doc. Dr. Jan Kubis, Prednosta ustavu lek. chemie

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Doc. Dr. Pavel Handzo, Prednosta ustavu telovychovneho

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Doc. Dr. Ladislav Chmel, Prednosta dermatovenerologickej

Prof. Dr. Teofil Niederland, Prednosta III. internej

Doc. Dr. Jaroslava Michaleckova Prednosta II. detskej

Prof. Dr. Vladimir Haviar, Prednosta II. internej

Akademik Ivan Stanek, Prednosta histologickeno a embryologickeho

Prof. Dr. Konstantin Carsky, Prednosta I. chirurgickej

Prof. Dr. Gejza Bardos, Prednosta ustavu experimentalnej patologie

SIGNATURES OF DANISH SCIENTISTS

Total number, 3

Copenhagen:

Mogens Pihl, Professor

Heinz Holser, Professor

Tage Kemp, Professor, Dr. Med.

SIGNATURES OF EGYPTIAN SCIENTISTS

Total number, 236

Cairo: Professor Unit Director, National Research Centre

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Aly Hassan
Moustafa M. Hafez
Ibrahim Ragab Nahmy
Mohamed R. Nadwar

Research Fellow, National Research Centre

Ahmed M. Cad
Hussein Ghaleb Osman
Mohamed A. El Kashef
Ezz El Di[illegible] Taha
Mohamed [illegible]rag
Yehia A. [illegible]
Gamal El Din [illegible]. Gad
Abbas El Hemeidy
Abdel Moneim A. Azm
Mohamed [illegible]. Fayez
Mohamed S. Khalil

Professor ([illegible] of Med.) Cairo University

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M. Talaat
A.K. Abdel Khalik
A.A. Tarkham
S.A. Effat
A. Mehriz
A.M. El Datrawy
M.S. El Ridl
A. Samy
Y.M. Guinena
M. Hashem
A.A. Handousa
M.M. Gaafar
A.Y. Salama
Chafic Chalaby
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A.F. [illegible]
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M.A.M. El [illegible]

M.K. El Sherbini
M. Seif El Nasr
M.A. Soliman
A.S. El Makin
R.M. Fawzy
A.M. El Sharkawi
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Fathy Ahmed
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SIGNATURES OF FRENCH SCIENTISTS

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Orleans:

Prof. J. Laurent, Prof. de Lycee

Boulogne-Billancourt (Seine):

Olivier Pozzo di Borgo, Inspecteur
Generale de l'Instruction Publique

Toulouse:

Ch. Fert, Faculte des Sciences,
l'Universite

Montpellier: University of Montpellier

M. Maury, Professeur
M. Mirouze, Professeur, Med.
M. Sorres, Professeur, Med.
M. Joyeux, Professeur, Med.
M. Boucomont, Professeur, Med.
M. Bouyard, Chef de Travaux
M. Levy
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M. Fourcade, Professeur, Med.
M. Boulet, Professeur, Med.
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M. Rioux, Professeur, Med.
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M. Milhau, Professeur
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M. Cazal, Professeur, Med.
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M. Harant, Professeur, Med.
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M. Cristol, Professeur, Med.

M. Etienne, Professeur, Med.

M. Emberger, Directeur, l'Institut de Botanique

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Me. Meffroy-Biget, C.N.R.S.

M. J.P. Kahane, Professeur de Mathematiques

M. Marres, Professeur de Geographie

M. Brunel, Professeur

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M. Combes, Assistant

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M. Euzet, Chef de Travaux Pratiques

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M. Nozeran, Chef de Travaux Pratiques

M. Moreau, Professeur de Mathematiques

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M. Rivieres, C.N.R.S.

M. Bertran, C.N.R.S.

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M. Jourda, Doyen, Faculte des Lettres

M. Imbert, Assistant

Mlle. Martin, Professeur

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M. Dolique, Professeur

Me. Harnelle, Assistante

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Hans-Hermann Bennhold, Mediziner

Gerhard Schramm, Biochemiker

Alfred Kühn, Zoologe

Erwin Bünning, Botaniker

Stuttgart:

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H. Aldinger, Prof.

F. Seel, Prof.

W. Hamann, Prof.

J. Goubeau, Prof.

U. Dehlinger, Prof.

H. Bredereck, Prof.

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Madeleine von Dohn, Priv. Dozentin

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U. Renner, Univ. Assist.

Herman Kahmann, Univ. Prof.

Fritz Bopp, Prof. Exp. Pzik

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Munich:

Dr. Georg Joos, Prof.

Karlsruhe:

Karl Wirtz, Prof. Physics

Heidelberg:

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Kienle, Hans, ord. Prof. für Astronomie

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Reinhard Nast, Prof. Chem.

Kl. Schäfer, Prof. Chem.

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F. Topfincier, Assist. Chem.

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Dr. Vollev Franzen, Dozent

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Heisenberg, Director of Max Planck Institute of Physics, Gottingen

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H. Böhm, Dipl. Ing.

R. Jaenicke, Dr. phil. nat.

K. Anderkie, Dr. rer. nat. Dipl.-Ing.

Marbürg/Lahn:

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Cappelles, Ulrich, wiss. Assist.

Vogt, Ekhart, Univ. Prof.

Klingelhoper, Rolf, wiss. Assist.

Bier, Konrad, wiss. Ass.

Huster, Erich, Univ. Prof.

Wolter, Hans, Univ. Prof.

Kamke, Detlef, wiss. Assist.

Kappler, Helmut, wiss. Angest.

Beckes, Erwin, Univ. Prof.

Zickendraht, Wimes, wiss. Ass.

Mainz:

Prof. Josef Mattauch, Physicist

Herbert A. Stuart, Prof. Physik.

Helmut Marx, Physicist

Thomas, Harry, Wiss.Assist.

Horner, Leopold, Univ. Prof. Org. Chemie and Biochemie.

Jerchel, Dietricn, Apl. Prof. Org. Chemie und Biochemie

Thomas, Klaus, Wiss Assist.

Wippel, Hans Günter, Wiss Assist.

Kinuse, Wolfgang, Wiss. Assist.

Kern, Werner, Univ. Prof. Org. Chemie

Grunsky, Helmunt, Prof. Math.

Furch, Robert, Prof. Math.

Müller, Henning, Prof. Theoretical Physics

Bodenann, Otto, Wiss. Asst. Physik. chem.

Forlke, Horst, Prof. Geologie

v. Steinwehr, Helmut, wiss. Assist. Min.

Schaller, Friedrich, Prof. Zoologie

Braun, Rudolf, Privat dozent

Helke, Adolf, Privat dozent

Harth, Otto, Wiss. Ass. Physiolog

Prof. F. A. Paneth, Chemist

Bechert, Karl, Univ.Prof. Theoretical Physics

Schubert, Gerhard, Prof. of Theoretical Physics

Inthoff, Wilhelm, Wiss. Assist.

Kämmerer, Hermann, Apl. Prof. F. Org.

Hoffmann, Hellmut, Wiss. Assist.

Steppan Hartmut, Wiss. Asst.

Schulz, Rolf C., Priv. Doz. Org. chem.

Wirth, Hermann, Wiss. Assist.

Neümer, Walter, Prof. Math.

Wilsner, Marnow, Prof. for. systematische Theologie

Bodo, Wolkmann, Dozent Math.

Shulz, S. V., Prof. physik. chem.

Merdes, Friedrich, Wiss. Assist. Physik. chem.

Baier, Ernst, Prof. Mineralogie

Schmitt, Carl H., Wiss. Assist. Min.

Dorse, E., Kustos

Tobien, Henry, Paleontologia

Mispin, Hans, Prof. Zoology

Rohen, Privat doz.

Nuinberger, Fritz, Medizinal assist.

Weber, Hans, Prof. Botanik

V. Eikestedt, Egon.

Wellek, Albert, Prof. Psychologie

Böchel, Carl G., Wiss. Assist.

Gunn, Henry, Prof. Ther. Chem.

Dabelow, Adolf, Prof. Anatomie

Schwidetzky, Ilse, Prof. Anthropologie

Sieg, Rudolf, Wiss, Assist.

Rochelmeyer, Hans, Prof. Pharmazie

Stahl, Egon, Dozent

Hamburg:

C. F. v. Weizsäcker, Physicist

Berlin:

Werner Stein, Physiker

Hans Nachtscheim, Geneticist

Udo Ehling, Geneticist

Hans J. Belitz, Geneticist

Horst Greiner, Physiker

Wolfgang Laskowski, Geneticist

Inedrid, Vogel, Geneticist

Wolfgang Helmbold, Immuno Geneticist

Veronika Bochnig, Geneticist

Kernes Ryloch, Physiker

Mainz:

Höhn, Karl, Prof.

Erlangen:

R. Fleischmann

Heidelberg:

Richard Kuhn, Prof. Dr.

Göttinghen:

Adolf Lindaus, Chemist

Otto Hahn, Prof. Dr.

Max Born, Prof. Em.

Prof. G. Dumagk, Physicist

Köln:

Prof. Dr. K. Alder

Darmstadt:

Helmut Witte, Prof.

K. Marguerre, Prof.

Adolf Küntzel, Prof.

Curt Schmieden, Prof.

Otto Scherzer, Prof.

Hans König, Prof.

Ulrich Franck, Prof.

SIGNATURES OF GHANA SCIENTISTS

Total number, 1

Accra:

A. Bekoe, Crystallographer

SIGNATURES OF BRITISH SCIENTISTS

Total number, 304

Calcutta:

John B. S. Haldane, Geneticist

London:

Walter Kurt Hayman, F.R.S., Prof. Pure Mathematics

R. Furth, Physicist

J. W. Jeffry, Physicist

W. Ehrenberg, Physicist

P. S. Trent, Physicist

N. E. Curack, Physicist

Allan Maccall, Reader in Chemistry

R. O. Davies, Physicist

A. H. Carlisle, Physicist

D. K. Butt, Physicist

J. C. E. Jennings, Physicist

E. Morris, Physicist

Kathleen Lonsdale, Prof. of Chemistry

Henry H. Dale

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C. A. Coulson, Math. Professor

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T. Bauchop, B.Sc.

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M. J. Blackburn

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J. Butler, BA

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J. C. Siddons, BSc
R. Smart, AMICE
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D. Thomason, MA PhD
F. W. Tranter
Thomas Trueman, MD DPM
Thelma Veness, BA
M. G. Webb, BA PhD
A. White, BSc
M. Philip Whiting
G. R. Wilkinson, BSc
H. R. Wilson, PhD

N. Redding, BSc
A. W. Rees, PhD
S. H. Revell, PhD
B. M. Richards, BSc
J. J. Roberts, PhD
S. R. Robinson, PhD
H. Rose, BSc FRIC AMIChemE
D. Rosen, MSc
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B. S. H. Royce, BSc
N. F. Sarsfield, PhD ARCS
S. Sevitt, MD FRCP MSc DPH
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K. Singer, BSc PhD
Alexis Sobolev, BSc Eng.
H. Spencer, BSc
M. Spencer, BSc ARIC
A. Stringer, BSc ARCSc
Kenneth B. Taylor, BSc
L. Tordai, MSc PhD
P. Tree, FPS
H. S. Turner, BSc PhD
B. Ward, BSc
G. Weber, PhD
M. White, BSc
M. H. F. Wilkins, PhD
W. T. Williams, PhD DSc
Nora Wooster

P. A. H. Wyatt, PhD

D. W. Young, BSc

A. C. Offord, F.R.S.

C. F. Powell, F.R.S.

Dorothy Crowfoot Hodgkin, F.R.S.

W. N. Pirie, F.R.S.

P. A. B. Weber, PhD

F. G. Gregory, F.R.S.

J. B. S. Haldane, F.R.S.

S. C. Harland, F.R.S.

J. D. Bernal, F.R.S

Hans A. Krebs, Univ. Prof.

Cambridge:

Brian S. Hartley, Biochemistry

Joseph Needham, F.R.S., Reader in Biochemistry

F. Sanger, Biochemistry

David Shoenberg, Physics

A. R. G. Owen, Univ. Lecturer

Dorothy Needham, Biochemistry

Barbara E. Holmes, Radiotherapeutics

Robert Hill, Biochemistry

C. D. Broad, Prof. Emeritus of Moral Philosophy

P. A. M. Dirac

London:

S. M. Manton, Zoologist

J. P. Harding, Principal Scientific Officer, British Museum

I. Gordon, Biologist

R. Pitt-Rivers, Biochemist

Bertrand Russell, F.R.S.

B. Cox, Zoologist

F. Balfour-Brown, Biologist

H. Munroe Fox, Zoologist

Julian Huxley, F.R.S.

Lord Boyd - Orr, F.R.S.

Exeter:

J. W. Cook, Vice Chancellor

Oxford:

J. H. Burn, Prof. of Pharmacology

W. E. Le Gros Clark, Anatomist

Accra, Ghana:

Desmond M. Burns, Physicist
V. R. S. Hutton, Physicist
David T. Gauld, Zoologist
Angus H. Booth, Zoologist
J. K. Morton, Botanist
M. J. Hollingsworth, Zoologist
Alan H. Ward, Physicist
M. A. Tazelaar Zoologist
W. Belfield, Zoologist
J. Judd, Zoologist
M. O'N. Campbell, Mathematician

London:

J. W. Cornforth, Chemist

Leeds:

E. G. Cox, Prof. Chem.
J. Dainton, Prof. Chem.

Cambridge:

Max Perutz, Prof. Chem.

SIGNATURES OF GREEK SCIENTISTS

Total number 1

Athens:

A. A. Christomanos, Professor, Biochemistry

SIGNATURES OF INDIAN SCIENTISTS

Total number, 535

Allahabad:

K. Baneja, Prof. Physics

K. C. Baneji, Asst. Prof. Physics

Rajendra Singh, Asst. Prof. Physics

M. P. Hankar, Asst. Prof. Physics

Krishnay, Asst. Prof. Physics

S.P. Dvare, Asst. Prof. Physics

V. D. Gupta, Asst. Prof. Physics

V. P. Agrwal, Asst. Prof. Physics

Arvind Mohan, Asst. Prof. Physics

K. Majumdar, Reader Physics

S. Joshi, Asst. Prof. Physics

D. Sharma, Asst. Prof. Physics

B. C. Das, Asst. Prof. Physics

H. S. Khan, Inst. Surveying

B. N. Mehrota, Asst. Prof. Physics

B. K. Agarwal, Asst. Prof. Physics

R. P. Singh, Asst. Prof. Physics

Y. P. Varshni, Asst. Prof. Physics

Madras:

V. S. Ramanujam, Prof. Physics

P. K. Menon, Addit. Prof. Zoology

P. G. Dowie, Prof. Geology

B. G. L. Swamy, Prof. Botany

J. Ranganathan, Prof. Statistics

T. Muniappan, Addit. Prof. Chem.

G. N. Ramachandran, Prof. Physics

P. S. Sarma, Prof. Biochem.

M. Santappa, Reader Chem.

Major S. Parthasarathy, Prof. Psychology

K. S. Venkateswaran, Addit. Prof. Botany

P. V. Abdurahiman, Prof. Math.

T. R. Govendachari, Prof. Chem.

R. Aiyaswamy, Prof. Math.

O. R. Surianarayanan, Addit. Prof. Chem.

K. N. Menon, Prof. Organic Chem.

P. R. J. Naidu, Prof. Geology

G. S. Laddha, Dir. A. C. College of Technology

V. G. Jaynrewan, Prof. Engineering

N. Arumugam, Sr. Lect. Organic Chem.

M. G. Subha Ran, Sr. Lect. Ore - Dressing

B. Jagannadha Swamy, Sr. Lect. Ind. Chem.

R. A. Quraishi, Reader Textile Tech.

S. A. Muulankar, Reader in Weaving

V. Subrahmanyan, Lect. Inorganic Chem.

Y. Nagrdamura, Asst. Dire. Central Leather Research Inst.

K. N. Shama Sastry, J. S. O.

K. Sebatangan, J. S. O. Chem. Lab.

A. Ganesan, Sr. Scientific Officer

S. M. Bose, Sr. Scientific Officer

D. Ramanwanay, Jr. Scientific Officer

B. C. Basn, Jr. Scientific Officer

E. C. Mathew, Jr. Scientific Officer

E. R. B. Shanmugasundaram, Sr. Lect. Biochemistry

K. Chandrasekharan, Sr. Lect. Chem. Eng.

T. K. Manicanachapoos Phiay, Reader Math.

B. Chennakesavan, Reader Chem. Eng.

O. K. Balakrishnan, Lect. textile Chem.

A. P. Madhavan Nair, Prof. Chem. Tech.

P. Muruga Manickam, Reader Eng.

N. Ramanathan, Sr. Scientific Officer

K. T. Sarnar, S. S. O. (Tannery Dir.)

O. S. Davood, Jr. Scientific Officer

Santibrata Ghosh, Jr. Scientific Officer

S. N. Sen. Sr. Scientific Officer

S. K. Mitra, Sr. Scientific Officer

V. S. Padmanabhan, Jr. Scientific Officer

B. N. Pal, Sr. Scientific Officer

Bangalore:

C. V. Raman, Physicist

N. Jayaraman, Chem. & Geologist

P. Ramaswami, Prof. Consulting Research Chem.

Dr. K. Ramiah, Agri. Officer (retired)

M. Sreenivasaya, Biochemist

M. V. Govindaswamy, Dir. Mental Health

B. K. Narayanarao, Dir. Med. Services (retired)

Y. Ramchandra Rao, Retired Entomologist

E. K. Ramaswami, Prof. Mech. Eng. (retired)

B. R. Seshachar, Prof. Zoology

P. Krishnamurti, Managing Dir.

M. Sirsi, Pharmacologist

S. Ramamurthy, Metallurgical Eng.

R. S. Krishnan, Physicist

K. V. Giri, Biochemist

K. Sreenivasan, Radio

A. A. Krishnan, Metallurgist

A. Jayaraman, Physicist

S. Pancharatnam, Physicist

A. Ramachandran, Mech. Eng.

T. N. Krishnaswamy, Aéro. Eng.

M. R. K. Rao, Mech. Eng.

R. G. Narayanamurthi, Mech. Eng.

B. N. Narayana Iyengar, Elect. Eng.

H. V. Gopalakrishna, High Volt. Eng.

K. Seetharamiai, Hydraulic Eng.

Dr. T. R. Anantharaman, Metallurgist

Dr. S. Rama Swamy, Prof. Physics

B. Rama Rao, Dir. Mysore Geol. (retired)

L. Rama Rao, Prof. Geology

C. V. Natarajan, Biochem.

A. Venkatarao Telang, Prof. Physics

M. K. Subramaniam, Biologist

M. C. Munshi, Economist

S. Bhagavanjam, Physicist

K. R. Krishnaswami, Chemist

C. S. Ghosh, Prof. Elect. Eng.

E. Weingaertner, Chem. Eng.

P. L. Bhatnagar, Math.

K. S. Viswanathan, Physicist

D. Krishnamurti, Physicist

S. Ramaseshan, Physicist

K. Mahadevan, Mech. Eng.

C. V. Joga Rao, Aero. Eng.

H. N. Ramachandra Rao, Elect. Eng.

N. S. Govinda Rao, Hydraulic Eng.

K. T. Sundara Raja Iyengar Civil Eng.

C. N. Nagaraj, Civil Eng.

S. N. Buri, Sound Eng.

H. R. Came, Biochemist

S. S. Ghur, Chem. Eng.

B. S. Ramakrishna, Telecom. Eng.

B. Dasannacharya, Prof. Physics

S. Sampath, Radio Eng.

N. Narayan, Lect. High Volt. Eng.

B. H. Iyer, Organic Chem.

M. R. A. Rao, Physical Chem.

G. K. Chatterji, Elect. Com. Eng.

C. C. Patel, Lect. Inorg. Chem.

R. Mallikarjuman, Lect. Metal.

R. K. Ramamurthy, Research Asst.

Dist. Birbhum, West Benga:

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Baroda:

Dr. C. M. Mehta, Reader Org. Chem.

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P. N. Bose, Prof. Chem.

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S. K. Mitra Emeritus Prof. Physics

B. Maitre, Managing Dir. Calcutta Chem. Co.

N. M. Basu, Prof. Physiology (retired)

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P. B. Sarkar, Prof. Chem.

B. C. Guha, Prof. Chem.

A. Chatterjee, Reader Chem.

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G. S. Saharia, Reader

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V. K. Ahluwalia, Lecturer

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G. B. Venkatasubramanian, Lect.

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P. S. Sarin, Teaching

Srinivasan Ramanujam, Research Asst.

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R. P. Mitra, Prof.

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Hakam Singh, Research

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A. C. Mehta, Teaching

A. S. Narang, Research

Miss Krishna Ganju, Research

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Miss Mahalakshmi Atreyi, Research

Rajindra Aneja, Research

P. K. Grover, Research

K. V. Sane, Research

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G. S. Kolachana, Research

M.V.R.K. Rao, Teaching

R. K. Bhatnager, Research

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R. C. Satija, Lect. Zoology

Ram Chand Paul, Reader Chem.

L. R. Sharma, Lect. Physical Chem.

Kundanlal, Lect. Inorg. Chem.

Vishwa Nath, Prof. Zoology

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P. N. Kalia, Sr. Lect. Physics

S. R. Bawa, Lect. Zoology

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Wajid Ali Khan, Lect. Chem.

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G. Sivarama Sastry, Research Scholar

B. K. Gupta, Research Scholar

A. V.Rao, Univ. Teacher

B. K. Goswami, Univ. Teacher

L. Janardhan Reddy, Univ. Teacher

P. S. Joshi, Univ. Teacher

D. Hanmanth Rao, Lecturer

S. Shah Mohammad, Reader Chem.

Khalil Ahmed, Lecturer

M. K. Rahman, Reader Chem.

T. Navaneeth Rao, Lect. Chem.

V. R. Srinivasan, Univ. Teacher

Venkobacharya, Lect. Chem.

S. Balakrishna, Lect. Geology

R. Satyanarayana, Prof. Physics

C. V. Ratnam, Research Scholar

R. Subba Rao, Research Scholar

Dr. M. R. Suxena, Reader Botany

M. Abdul Waheed, Reader Botany

M. A. Jabbar, Lect. Botany

U.B.S. Swamy, Lect. Botany

M. Hashim, Lect. Botany

K.V.N. Rao, Lect. Botany

S. N.Singh, Prof. Zoology

B. Kishen Rao, Lect. Zoology

M. Azmattullah Sharieff, Lect. Zoology

P. Narayan Rao, Lect. Zoology

Mohd. Hakemuddin, Lect. Zoology

S. Hussain Zaheer, Chem.

K. S. Chari, Chem. Eng.

I. Kishore, Chem.

K. G. Rangrez, Chem. Eng.

Y. V. Subba Rao, Technologist

B. S. Narayana Rao, Technologist

D. P. Agrawal, Chem. Eng.

R. N. Kudwalli, Chem.

S. A. Qader, Chem.

T. Satyapal, Chem.

M. A. Siva Samban, Chem.

S. Raghavender Rao, Chem.

P. M. Rangachari, Biochem.

V.D.M. Sastry, Research Asst.

A. V. Venkat Rao, Chem.

F. N. Khan, Lect. Botany

Ratan Singh, Lect. Botany

M. Rifaquat Ali, Lect. Botany

Dr. P. N. Rao, Lect. Botany

P. Raghuveer Rao, Lect. Botany

M. Abdur Rahman Khan, Reader Zoology

Syed Mohd. Mohsin, Reader Zoology

Jabir bin Salem, Lect. Zoology

M.R.A. Humayun, Lect. Zoology

Syed Shamsuddin Qadri, Reader Zoology

M. G. Krishna, Chem. Eng.

G. S. Sidhu, Chem.

K. T. Achaya, Chem.

S. A. Saletore

D. N. Misra, Chem.

A.N. Dharmapuri, Chem. Eng.

K. Seshagiri Rao, Chem. Tech.

S. Neelakant Rao, Chem.

M. Muneeruddin, Chem.

M. B. Naidu, Entomologist

G. M. Sastry, Research Fellow.

K. Ramchandran, Biochem.

S. Mahboob, Chem.

G. Thyagarajan, Chem.

G. S. Shinolikar, Chem.

Z. Osmani, Entomologist

Razia Osmani, Chem.

Mohan Lal, Biochm.

E. R. Suxena, Chem. Tech.

K. N. Moorthy, Chem. Tech.

S. Zainul Abdeen, Tech. Asst.

D. S. Datar, Chem.

M. Naseemul Huq, Chem. Eng.

Bharat Bhushan, Chem.

N. Sambasiva Rao, Chem.

M. A. Wahab, Ceramic Tech.

Mir Noman Khan, Ceramic Tech.

T. L. Narasimba Rao, Chem. Tech.

S. A. Jaleel, Chem. Eng.

G. S. Choudhary, Eng.

Y. Venkatesham, Chem. Eng.

S. J. Hasan, Chem.

Chenna Reddy, Chem. Eng.

Lucknow: Physicists

P. N. Sharma

T. P. Pandya

K. C. Lal

M. P. Madan

Arvind Vyas

B. P. Pradhan

S. C. Malaviya

R. K. Tandon

R. C. Gupta

R. C. Srivastava

B. N. Joshi

S. R. Bhattacharya

B. G. Gokhale

Poona: Scientific Research

N. R. Sanjana, Sc. Research

M. V. Kuber

Y. N. Trehan

C. I. Jose

A. B. Biswas

G. D. Palkar

P. S. Aygarwal

C. D. Sabane

Lakhbir Singh

N. M. Joshi

S. S. Katti

N. Sithoram Rao

S. B. Kulkarni

K. Nagaraja Rao

P. Srinivasa Rao
M. Skribljak
K. S. Irani
B. G. Zambre
A.P.B. Sinha
P. R. Chinchole
V. G. Tave
M. K. Gharpurey
A.Goswami
P. S. Sarfare
Arthur Ghosh

V.R.G. Moorn
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J. S. Gryial
V. R. Joshi
A. V. Momiu
D. S. Ambardekar
Miss R. Mathur
A. V. Deo
R. N. Shukle
Miss Parimala V.

Chemist

D. N. Sen
B.R.L. Row
D. C. Bhatnagar
D. R. Baxi
K. S. Rajan
B. Sarma
S. C. Bhattacharyar
H. H. Mathur
V. Kumaz
R. S. Joshi
K. K. Chakrarath
K. L. Sume
C. D. Dave, Chem. Eng.
D. D. Kelkar, Chem.

U. N. Kantak
Shiv Kumar
M. N. Rao
J. Lobo
P. R. Subbaraman
J. Gupta
C. R. Mitra
T. C. Jain
G. R. Kelkar
J. H. Amin
S. K. Ramaswami
Dr. K. G. Mathur, Scientific
D. K. Shastri, Chem.
K. S. Srinivasan, Chem.

V. K. Powar, Chem.

S.R.Guha, Economist

Chemist

B. Joshi

A. S. Rao

V. S. Pansare

V. N. Mulay

J. L. Bose

C. G. Joshi

S. M. Shah

M. C. Menon

J. P. Varure

D. D. Nanawati

Bhola Nath

P. N. Rao

K. D. Pathak

D. M. Nair

S. P. Bhide, Research worker

K. P. Govindan, Sc. Research

U. Shanker, Sc. Research

V. B. Phadke, Sc. Research

S. D. Gadkary, Sc. Research

B. Radhakrishna Rao, Sc. Research

W. W. Altekar, Biochem.

C. Swa Raman, Biochem.

R. Rama Rao, Biochem.

S. M. Abhyankar, Chem.

M. M. Lele

P. G. Sharma

N. S. Bhide

L. G. Shah

V. R. Shah

V. V. Bhaskar

A. S. Gupta

J. S. Aggarwal

D. V. Jagannath

N. B. Descri

G. D. Shah

N. L. Dutta

V. H. Kapadia

R. N. Pandya, Sc. Research

S. L. Bafna, Research worker

C. C. Menon, Sc. Research

R. N. Joshi, Sc. Research

N. Krishnaswamy, Sc. Research

S. Gundiah, Sc. Research

B. V. Ramachandran, Biochem.

R. K. Agashe, Biochem.

S. S. Subramanian, Biochem.

S. D. Khandrija, Biochem.

Biochemists

B. S. Baliga

M. R. Raghavendra Rao

M. C. Srinivasan

V. S. Govindarajan

V. V. Dhekne

R. S. Dhavalikar

A. V. Morey

B. D. Dasare

A. F. Mascarenhas

K. C. Menon, Vet. Science

J. R. Vakil, Biochem

V. G. Neurgronkar, Inorg. Chem.

P. G. Nerlekar, Chem.

K. Yatirajan, Chem.

Dr. M. U. Pai, Chem. Eng.

S. C. Banerjee, Chem. Eng.

M. V. Kurte, Chem. Eng.

V. B. Shaubhag, Chem. Eng.

M. Goswami, Chem. Eng.

R. C. Shah, Chem.

L. K. Doraiswamy, Chem. Eng.

C. D. Davo, Chem. Eng.

D. N. Sen, Chem.

Dr. S. K. Roy, Chief Res. Eng. Central Water & Power

Dr. B. C.Deb, Chief Res. Eng. Central Water & Power

V. S. Krishnamachar

R. M. Behki

S. R. Modak

I. J. Babbar

T. R. Ingle

J. C. Sandana

Mansa Ram

B. D. Kulkarni

Gurdas Singh

D. D. Godge, Biochem.

P. K. Bhaltachayar, Biochem.

V. Damodaran, Chem.

G. M. Patwawhan, Chem.

M.N. Krishnamurty, Chem. Eng.

L. K. Doraiswamy, Chem. Eng.

G. V. Potnis, Cem. Eng.

P. H. Brahme, Chem. Eng.

N. K. Maitra, Chem. Eng.

K. Venkataraman, Chem.

M. U. Pai, Chem. Eng.

S. L. Kapur, Chem.

V. Jagannathan, Chem.

Hira Lal, Chem.

Mr. G. M. Panchang, Chief. Res. Eng. Central Water & Power

Mr. R. Rangarajan, Res. Off.

S. C.Barai, Asst. Research Off.

Waltair:

C. Mahadevan, Prof. Geology

Swami Jnanananda, Prof. Nuclear Physics

G. Gopala Rao, Prof. Chem.

J. Venkateswarlu, Prof. Botany

C. Venkatarao, Prof. Chem. Eng.

K. Nagabhushanam, Prof. Statistics

S. T. Krishnaswami, Prof. Applied Physics

T. Venkatarayudo, Prof. Physics

P. N. Ganapati, Prof. Zoology

S. Minakshisundaram, Prof. Math.

Bombay:

D. R. Malhotra, Tech. Manager & Chief Eng.

SIGNATURES OF ISRAELI SCIENTISTS

Total number, 54

Jerusalem:

Prof. G. Stein, Phys. Chem.

Prof. A. Glasner, Inorg. & Acral. Chem.

Dr. E. Dimant, Biochemistry

Prof. S. Adler, F.R.S.

E. Ephrati-Elizur, Ph.D., Bacteriologist

V. Bachrach, Ph.D., Bacteriologist

J. Aronovitch, M. Sc.

T. Gurevitch, Prof. Microbiol.

S. Hestrin, Prof. Biochem.

Th. Grushka, Prof. Soc. Med.

G. Hares, Prof. Zoology

K. Guggenheim, Prof. Nutrition

Dr. B. Perlmutter-Hayman, Phys. Chem.

Prof. S. G. Cohen

Dr. Y. Liwschitz, Organic Chem.

H. Bernkopf, M.D., Assoc. Prof.

Y. Henis, M. Sc., Bacteriologist

R. Milbauer, M. Sc., Bacteriologist

Y. Becker, Virologist

J. Magnes, Prof. Physiology

B. Shapiro, Biochem.

E. Goldschmidt, Genetics

F. Steinof, Zoology

Haifa:

David Ginsburg, Chemist

Nathan Rosen, Physicist

Uria Garbalski, Chemist

C.A. Stoerk, El. Eng.

M. Avrahami, Chemist

H. Lindeman, Physicist

H. Hanani, Math.

M. Edelstein, Math.

Emil A. Halevi, Chemist

R. Pauner, Chemist

Isaiah Shavitt, Chemist

N.H. Steiger, Chemist

H. Aharoni, Chemist

A. Hirsch, Physicist

M. Reichbach, Math.

J. Steinberg, Math.

Ruben Schramm, Math.

Binjamin Schwarz, Math.

O. Platsker, Math.

E. Netanyahv, Math.

D. Tamari, Math.

N. Klein, El. Engineer

Rehovoth:

G.M.J. Schmidt, Chemist

Ph. Coppens, Chemist

C. Brando, Chemist

F. Stechtel, Chemist

Burman, Chemist

M. Cohen, Chemist

S. Lipson, Physicist

M. Kalman, Chemist

A. Nes, Physicist

SIGNATURES OF ITALIAN SCIENTISTS

Total number, 174

Padova:

Bezzi Silvio, Prof.
Cappelletti Carlo, Td
Sabbadin Armando, Liberi Docenti
Marcuzzi Giorgio, Liberi Docenti
Montantini Edmondo, Libero Docente
Marin, Ugo, Prof.
San Donnini Carlo, Prof.
Dell'Adami, Gera, Libero Docente
Cavazzana Paolo, Libero Docente
Dore Giovanni, Libero Docente
Hueber Franco, Libero Docente
Dalla Bernardina, Liber. Doc.
Cultrera Rolando, Prof.
Tito Serti, Prof.
Ippolito Sorgato, Prof. Ordinario
Giambattista Dal Piaz, Prof. Geol.
Umberto Carretta, Prof.

D'Ancona Umberto, Td.
Bucciante Luiz, Td
Colombo Giuseppe, Liberi Docenti
Baldassarri Mario, Prof.
Trevisan Giorgio, Libero Docente
Predonzan Arno, Libero Docente
Ravasini Giorgio, Libero Docente
Perissinotto Bruno, Libero Docente
Carando Mario, Libero Docente
Lenarduzzi Guerrino, Libero Docente
Geremia, Prof.
Mauro Picone, Prof.
Servadel Antonio, Prof.
Antonio Nasini, Prof. Chim.
Angelo Bianchi, Prof. ord.
Luigi Musajo, Prof. Chim.
Giovonini Rodiglicio, Prof.

Genova:

Andrea Gandini, Prof. ord.
Corrado Rossi, Prof. ord.

Aldo Iandelli, Prof. ord.
Enrico Crepaz, prof. ord.

Padova:

Crosilla, Ugo, Prof. ord.
Semerano, Giovanni, Prof. ord.

Riccoboni, Luigi, Prof.
Flarer, Franco, Prof. ord.

Nonnemetti, Egidio, Prof. ord.

Paolo Paoloff, Asst. Prof.

Ernesto Scoffone, Asst. Prof.

Giuseppe Tagliavini, Asst. Prof.

Mario Fiorani, Asst. Prof.

Donattom Carlo, Asst. Prof.

Gaetano Saitiavon, Res. Asst.

Aldo Turco, Asst. Prof.

Antonio Iliceto, Asst. Prof.

Umberto Belluco, Asst. Prof.

Luigi Oleari, Asst. Prof.

Vittorio Santoro, Asst. Prof.

Maria Bruno, Asst. Prof.

Milano:

Claudio Antoniani, Prof. di Chim. Agraria

Filippo Usuelli, Prof. di Anatomia e Fisiologia

Carlo Arnaudi, Prof. di Microbiologia

Arnaldo Corbellini, Prof. de Chim. Org.

Elio Baldacci, Prof. di Patologia Vegetale

Pisa:

Rotini Orfeo Turno, Prof.

Giancarlo Berti, Libero Docente

Modena:

Giuseppe Acanfora, Prof. ord., Clinica Malattie Infettive e Tropicali

Giorgio Peyronel, Prof. Gen. and Inorganic Chem.

Camerino:

Marchesoni Vittorio, Prof. Bot.

Perugia:

Moretti Giampaolo, Prof. di Microbiologia

Torino:

Gaini Guido, libero docente

Firenze:

Signorini L. Federico, lib. doc. igiene

Bologna:

Favilli Giovanni, Prof.

Bacialli Luigi, Prof.

Carlo Cessi, Libero docente

Olivo Oliviero Mario, Prof.

Moretti Innocenco, Libero Docente

Torino:

Giovanni Godina, Prof. ordinario

Giuseppe Levi, Prof. emerito

Firenze:

Canneri Giovenni, Prof. ord.

Ferroni Enzo, Prof. Lucaricato

Sansone, Giovanni, Prof. ord.

Clara Bergamini, Prof. Lucaricato

Rome:

Alessandro Rossi Fanelli, Prof. Biochimica

Doriano Cavalini, Libero Docente

Palermo:

Pietro Benigno, Direttore Istituto Farmacologia

Tommaso Ajello, Prof. Chimica farmaceutica

Giuseppe Reverberi, Prof. di Zoologia

Genova:

Ettore Pancini, Prof. Ord.

Alberto Gigli, Assist. Libero Docente

Giovanni Boato, Assist Libero Docente

Catania:

Giulio Cortini, Streordinario di Fisica Superiore

Ricardo Passerini, Streordinario Chem. Org.

Renato Ricamo, Ord. di Fisice Sperimentale

Rome:

Gaetano Fichera, Ord. di Analisi Mate

Beniamino Segre, Prof.

Firenze:

Abetti Giorgio, Prof.

Righini Guglichius, Prof.

Napoli:

Renato Caccioppoli, Prof.

Giuseppe Montalenti, Prof. Genetica

Califano Luigi, Prof

Galgano Mario, Prof. di Istologia

Firenze:

Emanuele Padoa, Prof. Anat. Comp.

Diletto Quattrini, Prof. Istologia

Palermo:

Luigi Sacconi, Prof. Chim. gen. e inorganica

Beniamino Gulotta, Prof. Geodesia

Luciano Chiara, Prof. astronomia

Giovanni Cusimano, Prof. Statistica

Lucio Lombardo Radice, Prof. Geometria

Alfio Rubino, Prof. Clinicia Oculistica

Aleardo Oliverio, Prof. Chimica

Alberto Monroy, Prof. di Anatomia Comparata

Silvio Vianelli, Prof. Statistica

Gerlando Maggiordomo, Aiuto e L.D.

Eduardo Gugino, Ord. Meccanica Razionale

Ideale Del Carpio, Ordinario di Medicina Legale

Michele Gerbasi, Ordinario di Clinica Pediatrica

Giuseppe D'Alessandro, Ord. di Igiene

Gioacchino Nicolosi, Ord. di Patologia Speciale Chirurgica

Filippo Guccione, Prof. Anatomia e Istologia patologica

Aldo Turchetti, Ord. di Patologia Speciale Medica

Franco Marchesi, Ord. di Clinica Ostetrico-Ginecologica

Gino Meldolesi, Ord. di Clinica Medica Generale e Terapia Medica

Mariano Santangelo, Prof. Fisica sperimentale

Modena:

Massimo Aloisi, Prof. di Patologia Generale

Messina:

Liberti Arnaldo, Prof. di Chim. analitica

Ciavatta Liberato, Prof.

Bonetti E., Prof. di Patologia Generale

Bionda Giacomo, Prof. merccolo

Cartoni Gaolo, Prof. Inc.

Ferrara:

Giampaolo Bolognesi, Doc. Electrochimica

Azmando Torboli, Doc. Chim. Biol.

Giuseppe Cravagli, Doc. Chim.

Antonio Hemmeler, Doc. Chim. analitica

Palermo:

Sigismondo Cusmano, Ord. Chim. Org.

Barbera Guiseppe, Ord. di Industrii Agrarie

Emilio Zamini, Ord. di Agronomia

Nicola Martonelli

Salvatore Monastero, Ord. di Entomologia Agraria

Rindone Alfredo, Docente di anatomia

Francesco Platzer, Ord. di Economica e politica agraria

Petronici Clara, Docente de Chimica Agraria

Parma:

Adolfo Ferrari, Prof.

Luigi Cavalca, Prof.

Giorgio Todesco, Prof.

Mario Nardelli, Libero docente

Milano:

Alberto Soldi, Libero docente

Pietro Fornazoli, Libero Docente

Guido Cavallini, Libero docente

Catania:

Bruno Foresti, Prof. di chim. generale

Siena:

Prof. Giuseppe Bianchini

Prof. R. Bortelli, Ordinario

Prof. Franco Ottalcrytii, Clinica Dermatologia

Prof. Geo Rita, Ordinario di Microbiologia

Prof. Alberto Bencini, Ordinario

Prof. d'Antona Domenico, Microbiol.

Prof. Pompeo Spoto, Ordinario di Ostetricia

Prof. Luiz Scremin, Ordinario di Farmalogia

Prof. Franco Lews

Prof. Antonio Pizzano, Ord. di Igiene

Prof. Spidio Tosars, Ordinario

Milano:

Simonetta Massimo, Prof. Chem.

Malatesta Lambert, Prof. Chem.

Livio Cambi, Prof.

Adolfo Zimlico, Prof. Chem.

Verde Mario, Prof. physics, Genoa

Fusco Raffaello, Prof. Chem.

Borsellino Antonio, Prof. Physics, Genoa

Occhialini Giuseppe, Prof. Physics

Caldirola P.C.A., Prof. Physics

Budini Paolo, Prof. Physics Trieste

SIGNATURES OF JAPANESE SCIENTISTS

Total number, 1141

Kyoto: University of Kyoto

Akira Kobori, Prof. Math.

Satio Hayakawa, Prof.

Zino Koba, Prof.

Yoichi Uchida, Prof. Physics

Yoshio Nakai, Physics

Tosiro Tomotika, Physics

Kenzo Tanaka, Prof. Physics

Tsunco Seto, Physics

Izuru Fujiwara, Asst. Prof. Univ. of Osaka Pref. Sakai

Isao Mannari, Asst.

Tsuneo Hashi, Asst. Prof.

Susuma Tomotika, Prof.

Tosio Miyagi, Lecturer of Univ. of Osaka Pref., Osaka

Minoru Namagushi, Grad. Student

Minoru Nishida, Asst.

Yoshinosuke Terashima, Asst.

Noboru Ohyama, Grad. Student

Masayuki Uchara, Grad. Student

Minoru Morikawa, Grad. Student

Noboru Nakanishi, Grad. Student

Sirobu Nagata, Grad. Student

Ryozo Tamagaki, Grad. Student

Hideki Yukawa, Prof.

Minoru Kobayasi, Prof.

H. Yosimura, Physics

Kuniya Fukuda, Physics

Toshiko Nakagawa, Physics

Kenjiro Asai, Physics

Y. Fujiwara, Physics

Tushiaki Hayashida, Physics

Tunahiko Sidei, Prof.

Todashi Watanabe, Asst.

Takesi Inoue, Assoc. Prof.

Kanefusa Groto, Grad. Student

Eiji Miyanishi, Grad. Student

Chushiro Hayashi, Prof.

Kensai Ito, Grad. Student

Hiroshi Tsuda, Grad. Student

Hirogocki Tsuji, Grad. Student

Chiaki Ihara, Grad. Student

Beiji Sugano, Grad. Student

Shin Ishida, Grad. Student

Takanori Shiozaki, Grad. Stud.

Yoshigreki Sakamoto, Grad. Student

Mitsuo Shindo, Grad. Student

Tatsuro Sawada, Asst.

Yoshihiko Nishida, Asst. Prof. Saga Univ., Saga

Kiyomi Ikeda, Grad. Student

Sueji Okai, Grad. Student

Fumio Fukuzawa, Asst. of Hyogo Agricultural Univ., Hyogo

Masaru Yasuno, Grad. Student

Osaka:

Tokunosuke Watanabe, Prof.

Tsunesaburo Asada, Prof.

Toshihiro Asano, Prof.

Tetsuo Takatsuki, Prof.

Kenji Ibes, Asst. Prof.

Ichiyasu Oda, Asst. Prof.

Toshiyuki Nishiyama, Asst. Prof.

Michi Samurai, Asst. Prof.

Kinjiro Kunugi, Prof.

Ichio Kasuno, Prof.

Iroshi Ito, Asst. Prof. Osaka Univ.

Katsuro Suzuki, Asst. Prof. Osaka Univ.

Toru Kawaji, Grad. Student

Hiroshi Yoshinaga, Prof. Osaka Univ.

Yoshisa Sato, Asst. Osaka Univ.

Shinji Ohwai, Asst. Osaka Univ.

Akira Yoshikawa, Asst. Osaka Univ.

Kodi Husimi, Prof.

Takeo Haganiya, Prof.

Koreichi Ogata, Prof.

Tadao Horie, Asst. Prof.

Ryoju Utiyama, Prof.

Shuji Takagi, Asst. Prof.

Shotaro Yamabe, Asst. Prof.

Kinjiro Shoda, President

Hidetaka Terasaka, Prof.

Tsutomu Oda, Prof.

Shigeru Fujita, Asst. Prof. Osaka Univ.

Susumu Kato, Asst. of Osaka Univ.

Takashi Shikata, Grad. Student

Toshio Ishino, Dean, Faculty of Eng. Osaka, Univ.

Makoto Hikukawa, Asst. Prof. Osaka Univ.

Mitsunobu Ogasawara, Asst. Prof. Osaka Univ.

Kiyoshi Inoue, Asst. Osaka Univ.

Osaka University

Minoru Yamada, Asst. Prof.

Akio Shindoli, Asst.

Akio Kobayashi, Asst.

Shiro Takagi, Asst.

Ideo Inoue, Asst. Prof.

Jiro Shiokawa, Asst.

Motoichi Takahashi, Asst. Prof.

Yoshe Mon, Asst.

Saburo Tonoki, Prof.

Toshihiro Shigeno, Asst. Prof.

Tomio Kuroda, Asst.

Hiichi Kuwenita, Asst.

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Tojuro Hyoroku, Assoc. Prof.

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Takeo Hamauchi, Asst.

Mikuro Ikeda, Asst. Prof.

Shosuke Imoto, Asst.

Akihiro Shuji, Lecturer

Seiji Tokumoto, Asst. Prof.

Kimbei Inoura, Asst. Prof.

Isao Shibasaki, Asst. Prof.

Hiroshi Ohada, Lecturer

Yoshio Imatsu, Asst.

Hisakaru Yamuchi, Asst. Prof.

Hanae Senda, Prof.

Kazuo Kawaguc, Asst.

Saboro Kumagai, Prof.

Kenji Nogami, Prof.

Taro Ueda, Prof.

Kasaki Watanabe, Prof.

Minoru Okada Prof.

Yoshiaki Arata, Asst. Prof.

Tomio Ariyasu, Asst.

Shunzo Doguchi, Asst.

Noburo Kamiya, Prof. Biol.

Shirema Abe, Cell Physiol.

Toshio Hayashi, Cell Physiol.

Reiko Nagai, Post. Grad. Stud.

Yuji Mori, Cell. Physiol.

Tamotsu Morada, Post. Grad. Stud.

Hiromichi Nakajima, Inst. of Biology

Kiyoko Muroda, Instructor of Biol.

Mitsuru Takata, Post Grad. Stud.

Michiro Nishimoto, Biophysicist

Yasuo Mukohata, Biophysicist

Kazuo Okumuki, Prof. Biology

Tshizo Ikemura, Prof. Physical Biochem.

Ichyno Manjor, Prof. Biology

Tomiyuki Nara, Radiation Biol.

Yuzo Sekoguti, Biologist

Iwashiro Oki, Biologist

Shingo Watanabe, Biologist

Masahara Ueda, Psychiatrist

Masashi Takesada, Psychiatry

Miyeko Kamiya, Psychiatrist

Kimiyuki Nishiguchi, Master of Eng., Osaka Univ., Hirakata

Yoshio Tsuji, Elec. Eng. (Atomic Energy Bureau) Tokyo

Kenji Asakura, Asst.

Tadao Nakam, Instructor of Osaka City Univ.

Tshiyuki Kurota, Asst. Osaka City Univ.

Kiyoshi Ogawa, Grad. Student Osaka City Univ.

Takesi Ogimoto, Grad. Student Osaka City Univ.

Ryutavo Tsuchida, Prof.

Yoichi Shimura, Res. Assoc.

Hayami Yoneda, Asst. Prof., Wakayama

Nobufumi Maki

Miyako Ogawa

Kiyoteru Otozai, Asst. Prof.

Shiro Iwata

Shouzow Fukushima, Chemist

Takeo Kaneko, Prof.

Toru Yoshizawa, Biologist

Yuji Kito, Biologist

Norio Yamanti, Psychiatrist

Hisashi Nakajima, Psychiatry

Akio Mitani, Psychiatry

Seikan Ishigai, Assoc. Prof. Osaka Univ., Ashiya

Hiroshi Maruo, Master of Eng., Osaka Univ., Hirakata

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Shuzo Ogawa, Instructor, Univ. of Hiroshima, Hiroshima

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Akira Miwa, Prof.

Yosikata Janimura, Asst. Prof.

Momoyuki Takahashi, Asst. Prof.

Shigeru Tamai, Prof.

Noboru Hasezawa, Asst. Prof.

Tadashi Oda

Hirose Hirose, Prof.

Yukio Mori, Asst. Prof.

K'kuo Chishima, Prof.

Hideyuki Kozima, Asst. Prof.

Iwao Misomura, Asst. Prof.

Herosi Sengoi, Asst. Prof.

Shuichi Hattori

Isyo Yamamoto, Asst. Prof.

Mizo Nagami

Sumiko Marui

Ziro Miyawaki
Masakazo Hasimoto
Takuya Takano
Fujio Matai
Takeo Fukutomi
Tosihara Eto, Asst. Prof.
Kiyoshi Komori, Asst. Prof.
Norio Itisima Asst. Prof.
H. Mitsuhashi
Eiji Okuda
Hosihiro Wada
Shutaro Ushimaru, Prof.
Ikuei Muramatsu, Asst. Prof.

Nagoya: Nagoya University, Law Faculty, Naka-Ku

Junichiro Morimoto, Asst. Prof.
Yasuo Nakahi, Asst. Prof.
Y. Yamashida, Prof.
Ryoicho Yamada, Prof.
Hitoshi Otsuka, Asst. Prof.
Masao Miyake, Prof.
Hiroshi Enjoji, Asst. Prof.
Yasuo Akao, Asst. Prof.
Ichizo Ninomiya, Asst. Prof.
Ichiro Sugiura, Asst. Prof.
K. Osada
Mituo Ono, Asst. Prof.
N. Nagai, Asst. Prof.
K. Yano, Asst. Prof.
Ch. Kisatsuma, Prof.
Y. Sakao, Instructor
H. Yoshioka, Asst. Prof.
K. Ando, Graduate Student
Tsuneo Tnako, Asst. Prof.
Tiaki Kasiwagi, Prof.
Toru Ikuyo, Prof.
Yoshiro Hamematsu
Tsuneo Hirano, Prof.
Seizaburo Shinobu, Prof.
Osamu Yamada, Asst. Prof.
Kenso Yamamoto, Prof.
Z. Sakado, Prof.
K. Yosihara, Asst. Prof.
T. Suga Prof.
S. Takeda Prof.
Y. Sawamoto, Prof.
S. Nishi, Asst. Prof.
Mituouye, Asst. Prof.
H. Sekiguchi, Prof.
R. Abe, Asst.
Tetsuro Ohtsuka, Grad. Student

Kunio Goto, Grad. Student
Kazuo Nagashima, Asst. Prof.
Shuji Sagisaka, Asst.
Hirosachi Ueno, Grad. Student
Yataro Sekido, Prof.
Yoshio Ohmuki, Asst.
Shoichiro Otsuki, Instructor
Yasutaro Takao, Grad. Student
Masami Nakagawa, Grad. Student
Shunkiti Hirokawa, Grad. Student
Hirotaka Nakayama, Grad. Student
Hiroo Komori, Grad. Student
T. Kasuya, Member
T. Shimizu, Member
Kanenori Suwa, Asst.
Takeshi Uemura, Asst.
Mitsuyuki Nakai, Asst.
Junio Cosawa, Prof.
T. Hoya, Prof.
I. Miyagawa, Prof.
T. Takahashi, Asst. Prof.
T. Musano, Lecturer
T. Nagawa, Prof.
M. Toyama, Prof.
R. Saito, Lecturer
Isamu Sano, Prof.
F. Ozami, Prof.

Seiji Fukuzumi, Grad. Student
Takashi Murayama, Asst.
Yoshiko Kamiya, Asst.
Sostoru Mori, Grad. Student
Eiji Yamada, Asst. Prof.
Ken-ichi Matsumoto, Grad. Stud.
Shih-Hui Hsieh, Grad. Student
Haruo Obayashi, Grad. Student
Isao Umemura, Grad. Student
Kenzo Nakada, Grad. Student
Kanetaka Ariyama, Prof.
Hajime Shimodaira, Asst.
K. Yamada, Member
K. Matsaura, Member
Kunihiko Miyagawa, Asst.
Tatsuhiko Wada, Asst.
K. Nagasawa, Asst. Prof.
H. Saito, Asst. Prof.
T. Mine, Asst. Prof.
T. Shimooka, Lecturer
H. Daimon, Lecturer
Y. Ishu, Prof.
M. Kimura, Prof.
T. Noda, Prof.
Yoshimasa Hirata, Prof.
Kazuo Yamasaki, Prof.
Ken Sugawara, Prof.

Ken Nakamoto, Asst. Prof.
Mamoru Chashi, Asst.
Takaharu Shinakata, Grad. Stud.
Michio Shimamura, Grad. Student
Aiji Nazaki, Grad. Student
Katsuhira Iida, Grad. Student
Satoru Kanamori, Grad. Student
Yasushi Aitano, Asst. Prof.
... Kawasaki, Asst.
S. Kitani, Grad. Student
M. Miyahara, Asst. Prof.
Yasushi Sasaki, Grad. Student
Motoo Yasuda, Asst.
M. Kakihara, Asst. Prof.
Osamu Shimomura, Asst.
M. Kimoto
Z. Suzuoki
M. Shibasaki
M. Takaoka
Y. Kawanabayashi
M. Hayashi
T. Tsuzuku, Asst.
Tadashi Kwioda, Lecturer

Hirashi Kakisawa, Asst.
Yasuaki Okumura, Grad. Stud.
Shosuke Takemura, Asst.
Shigehiko Tamaguchi, Asst.
Masazumi Miyazaki, Grad. Stud.
Noriko Takahashi, Asst.
Hitoshi Sato, Grad. Student
M. Tanaka, Asst. Prof.
Y. Fujitani, Asst.
Koiu Ito, Grad. Student
Y. Kurita, Asst.
Keinosuke Suzuki, Grad. Stud.
H. Ohtaki, Grad. Student
Hisao Nakata, Asst.
H. Nakano
Y. Yamagata
T. Sakaki
H. Makishima
N. Takaki
T. Arakawa
N. Shimada, Lecturer
R. Iwahashi, Asst.
Hisasi Morikawa, Lecturer

Faculty of Economics

H. Shikata, Prof.
T. Saitoh, Lecturer

K. Gotoh Prof.
Hiroshi Mizuta, Asst. Prof.

Yuichi Oshima, Lecturer
Kenji Yamazake, Prof.
Kimio Shiozawa, Asst. Prof.
Seimatsu Narumi, Prof.

Department of Pedagogy

Katsuya Norita, Asst. Prof.
T. Kobori, Asst. Prof.
K. Kihara, Asst. Prof.
T. Ogawa, Prof.
K. Furuki, Prof.
R. Hirooka, Prof.
S. Omichi, Asst. Prof.
T. Shigematsu, Prof.

Nagoya Institute of Technology

Makisaburo Ogasawara, Asst. Prof.
Akira Sugiyama, Asst. Prof.
Sanzo Aikawa, Asst. Prof.
Shin-ichi Takahashi, Prof.
Ikuma Ishii, Asst. Prof.
Jun-iti Ito, Asst. Prof.
Saburo Mizuno, Prof.
Minoru Tsunekawa, Asst. Prof.
Morihiko Kanie, Asst. Prof.
Ken-ichiro Ishii, Asst. Prof.
Hiroshi Yoda, Asst. Prof.

Japan Social Welfare College

Fumio Miura, Asst. Prof.
Norayoshi Nokuo, Prof.
Koichiro Kondo, Asst. Prof.
Isamu Kishi, Asst. Prof.
Susumu Yoshioka, Lecturer
Tomohiko Sudo, Asst. Prof.
Taeko Kuza, Lecturer
Yasuo Hata, Lecturer
Kogaku Yosida, Lecturer
Yoshio Ujitani, Lecturer
Hirosi Urabe, Prof.
Totaro Nakamura, Prof.
Kazuyuki Hijyo, Lecturer
Tusa Asaka, Prof.
Yutaka Simada, Lecturer
Taigi Isiguro, Asst. Prof.
Yasuo Hijikata, Lecturer
Susumu Takashima, Lecturer
Jun-ichi Yamada, Lecturer
Taishiro Shirai, Lecturer

Nobuko Inako, Lecturer

Bunu Kusumoto, Prof.

George Osaka, Lecturer

Yasuharu Ito, Lecturer

Fukuoka: Kyushu University

Yukio Taguchi, Grad. Student

Hiromichi Miraki, Grad. Student

Zyuzi Kido, Grad. Student

Takeshi Yoshida, Grad. Student

Kinshiro Hirakawa, Asst.

Kimio Hashimoto, Asst.

Joshihiro Okada, Asst. Prof.

Toshioyuki Ishimatu, Asst.

Susumu Morita, Asst. Prof.

Yorio Goto, Grad. Student

Kazuyosi Ikeda, Asst.

Daisuke Shimozura, Asst. Prof.

Soitiro Tosima, Asst.

Humiyo Matuo, Asst.

Atuyosi Okazaki, Prof.

Nawoyuki Kawai, Asst.

Nawoyuki Takano, Grad. Student

Ryosuke Hatakeyama, Grad. Stud.

Hiroshima: Hiroshima University

Kiyosi Sakuma, Prof.

Susumu Furuichi, Grad. Student

Kichiro Hiida, Asst.

Tamotsu Ueda, Student

Osamu Sugimoto, Grad. Student

Minoru Yonezawa, Grad. Student

Ryoichi Kajikawa, Grad. Student

Makoto Sawamura, Grad. Student

Yoshiko Sugahara, Grad. Student

Hiroshi Suura, Asst. Prof.

Kobe: Kobe University

Tosiya Taniuti, Asst. Prof., Physics

Yoshika Masuda, Asst. Prof., Physics

Yusuke Kato, Asst., Physics

Yoshio Toyoda, Asst., Physics

Teinosuke Kanda, Prof., Physics

Yushiro Saito, Asst., Physics

Yoshihiro Tsuzuki, Asst., Physics

Goro Fujioka, Asst. Prof., Physics

Nobumichi Mugibayashi, Lecturer, Physics

Masako Okada, Research Asst., Chem.

Keisuke Suzuki, Lecturer, Chem.

Konan University, Motoyama Kobe

S. Kawata, Prof.

Masakatsu Sakisaka, Asst. Prof.

Toshito Oyama, Lecturer

Masuneri Muasa, Asst. Prof.

Masateru Sonoda, Prof.

Bunzaburo Saeki, Research Asst.

Kazusuke Sugiyama, Research Asst.

Okazaki: Aichi-Gakugei University

Hajime Noguchi, Assoc. Prof.

Makoo Ota, Assoc. Prof.

Tsusaka Kato, Prof.

Yasuzi Iida, Assoc. Prof.

Noboru Sassa, Prof.

Misao Kobayasi, Assoc. Prof.

Sinenobu Kawamatu, Asst.

Heijiro Ojima, Asst.

Hiroichi Shimooda, Assoc. Prof.

Zensuke Muro, Prof.

Tomoji Inoue, Prof.

Ryojiro Iwaki, Assoc. Prof.

Ryuiza Mori, Assoc. Prof.

Hideo Gamo, Prof.

Yutaka Nakai, Asst.

Yokohama: Yokohama National University

J. Fujimura

I. Takano

Y. Nagahara

H. Shimazu

Tokyo: Ochanomizu University

Tsuneto Shimose, Professor
Akiko Ohno, Lecturer
Mieko Yokota, Assistant
Osamu Kamei, Assistant
Matsuki Hashitsume, Assist, Prof.
Akiyoshi Wada, Lecturer
Susumu Sada, Assistant
Seiichiro Utsumi, Professor
Jiro Sakagami, Professor
Shizuko Ogawa, Assist. Prof.
Yuko Nagasawa, Assistant
Saburo Asaka, Professor
Kazuyoshi Tsukuda, Lecturer
Michio Okuda, Assistant
Taro Hayashi, Professor
Kimiko Anno, Professor

SIGNATURE OF JORDANIAN SCIENTISTS

Total number, 11

Amman:

Abdul Hamid Yasin, Principal
Shafiq Buraik, Inspector of Schools
Burhan Kamal, Principal, Trade school
Zuhair Malhas, Physician
Muhammd Hunaidi, Biologist
Raghib Khalidi, Physician
Fat-hi Qaddura, Physics teacher (formerly)
Muhammd Abbasi, Science Teacher (formerly)
Kamal Husaini, Chem. teacher
Hamad Farham, Economist
Dr. Haidar Husaini, Bacteriologist

SIGNATURES OF LEBANONESE SCIENTISTS

Total number, 1

Beirut:

Powers, L. E., M.D., Director
School of Public Health

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SIGNATURES OF MEXICAN SCIENTISTS

Total number, 23

Mexico City:

Dr. Alberto Sandoval L., Chemist

Dr. Fernando Walls, Chemist

Dr. Jose F. Ferrar, Chemist

Sergio E. Flores, Chemist

Prof. Guillermo Haro, Astronomer

Dr. Jesus Romo, Chemist

Dr. A. Poveda, Astronomer

Dr. G. Montiel, Optician

Susana Morales, Astronomer

Prof. Luis Zubieta, Astronomer

Dr. Humberto Flores, Chemist

Dr. Armando Manjarrez, Chemist

Dr. Humberto Estrada, Chemist

Javier Padilla, Chemist

Dr. Guillermo Torres, Mathematician

Dr. Barbarin Arreguin, Biochemist

Ing. Eduardo Diaz Lozada, Electrical Engineer

Jose Giral, Prof.

Dr. Eli de Gortari, Philosopher

Dr. Roberto Vazquez

Tonantzintla, Puebla:

Luis Munch, Astronomer

Ing. Luis Rivera Terrazas, Astronomer

Enrique Chavira, Astronomer

SIGNATURES OF DUTCH SCIENTISTS

Total number, 29

Amsterdam:

J. Hilgevoord, Physicist

A. S. Reiner, Physicist

M. J. Offerhaus, Physicist

Prof. Dr. J. D. van der Waals, physicist

E. C. Slater, Prof. Physiol. Chem.

S. A. Wouthuysen, Physicist

J. M. J. van Leeuwen, Physicist

Prof. Dr. A. de Froe, Geneticist

Dr. L. H. van der Tweel, physicist

J. Kok, Prof. of Toxicology, Pharmacy and Biochemistry

Utrecht:

Prof. Dr. M. G. J. Minnaert, Physicist

Prof. Dr. N. M. Hugenholtz, Physicist

Prof. Dr. B. R. A. Nijboer, Physicist

H. G. K. Westenbrink, Prof. of Physiological Chem.

Prof. Dr. G. H. Bretschneider, Biologist

Prof. Dr. L. van Hove, Physicist

Prof. Dr. H. C. Burger, Physicist

Delft:

Prof. Dr. W. T. Koiter, Physicist

W. Berends, Prof. Biochemistry

Leiden:

Prof. Dr. A. D. Fokker, Physicist

Prof. Dr. H. J. Gloor, Geneticist

Dr. H. A. Tolhoek, Physicist

Nijmegen:

Prof. Dr. S. J. Geerts, Geneticist

E. C. Noyons, Prof. Physiological Chemistry

Arnhem:

Dr. P. J. Waardenburg, Geneticist

Groningen:

Prof. Dr. M J Sirks, Geneticist

Prof. Dr. H. J. Groenewold, Physicist

Wageningen:

Prof. Dr. T. H. Thung, Biologist

Albert Smit, Geologist

SIGNATURES OF NEW ZEALAND SCIENTISTS

Total number, 21

Auckland:

D. Hall, Lect., Chemistry

J. K. Wilmhurst, Lect., Chemistry

R. C. Cambie, Lect., Chemistry

R. N. Seelye, Lect., Chemistry

A. L. Odell, Sr. Lect., Chem.

R. W. Olliff, Lecturer, Chem.

L. D. Colebrook, Lect., Chem.

Dunedin:

S. A. Bates, Lecturer

F. B. Cousins, Lecturer

A. K. McIntyre, Professor, Physiology

G. H. Satchell, Lecturer

I. K. Holst, Research Assist.

Wellington:

P. Ralph, Zoologist

W. A. Watters, Geologist

R. A. Couper, Geologist

I. G. Speden, Geologist

M. Holdsworth, Botanist

M. T. Le Punger, Geologist

C. A. Fleming, Geologist

Makara:

R. F. Hay, Geologist

Eastbourne:

A. Scott, Geologist

SIGNATURES OF NORWEGIAN SCIENTISTS

Total number, 112

Bergen:

Dr. August Brinkmann, Jr., Prof.

Einar Eliassen, Amanuensis

Trygve Gjestland, Prof. preventive medicine

Claus Clausen, Univ. Lecturer

Tostein Goksøyr, Dosent, Botanikk

Knut Faegri, Prof. dr. philos.

Trondheim:

Harald Wergeland, Prof. Theor. Physics

Sverre Westin, Prof. of Applied Physics

Karl Sandved, Dosent in Theor. Chemistry

Helge Larsen, Prof. of Biochem.

John Olav Stubban, Prof. of Mathematics

Njal Hole, Prof. of Physics

Thorolf Vogt, Prof. of Mineralogy and Geology

Otto Bastiansen, Prof. of Theor. Chemistry

Vollebekk:

H. Wexelsen, Professor

A. H. Bremer, Professor

Kjell Steenberg, Research director

M. Odelien, Professor

Johs Höie, Professor

Sverre Lund, Assistent

Knut Aastuit, Assistent

J. Arve Pedersen, Assistent

Torvalel Forduceo, Assistent

O. Laig, Professor

Elling Haberais, Assistent

Bjarne Ljones, Professor

Olav Aspesater, Professor

Ystgaard, Ole M., Professor

P. Ottestad, Professor

Olav Aurlien, Assistent

Fritz Lauman, Assistant

Robert Hansen, Shipendiat

S. Lindeberg, Professor.

G. Sandich, Shipendiat

Ola Einevalls, Shipendiat

Gunnar Seneb

Einar Veguinist, Assistent
Halvdan Sjoseble
Ola Kungdahl
Sorino Lorensen
Karl Aukkelsun, Assistent
D. Nissen, Professor
Egel Ozjord, Forskungsass
Fuiar Vidvei, Forskningsass
Ralf Landped
Albrigt Myrsbad, Assistent
Lars Roer, Assistent
Glav Lid, Stipendiat
L. Fosbsdol, Stipendiat
G. Liabijell, Assistent
A Svendsrud, Stipendiat
Berulf Heldal, Assistent
Oyvind Haugerud, Assistent

Condu Berner, Jr., Assistent
Esther Naium
G. J. Solberg
Anton Hjeldues, Assistent
Binger Opsahl
Erling Forsund, Stipendiat
F. Agasland, Assistent
Arne Thorsrud
P. Husabo
Haus Flzdal, Laborant
Erling Strand, Forsksleder
C. Balle, Assistent
Eilif G. C. Prosch, Assistent
Rolf Sather, Forsknass
Gotfred Kvifte, Professor
Heinz Foss, Assistent
Knut Mikaelsen, Scientist

Oslo:

Odd Hassel, Professor
Trygve Braarud, Professor
Endre Berner, Professor
Alexis C. Pappas, Professor
Kaare Lunde, Amanuensis
Sven Oluf Sörensen, Physicist
Jon Flatby, Physicist
Leiv Audun Berteig, Physicist

Bjørn Føyn, Professor
Søren Laland, Professor
Ivar Oftedal, Professor
Erling Bernatek, Førsteamanuensis
Per Andersen, Amanuensis
Fredrik Grønvold, Assistant Prof.
Kristian Koren, Physicist
Johan Baarli, Physicist

Per Bergan

Jeanne Mossige, Geneticist

Fredrik Beyer, Marine Geologist

Einar Wang Lund, Amanuensis

Olaug M. Sörme, Amanuensis

Haakon Natvig, Professor dr. med.

Axel Strom, Professor

Anatol Heintz, Professor

Roald Tangen, Professor

Ellen Gleditsch, Professor

Gleditsch Ellern, Professor em.

Bjorn Föger, Professor

I. Th. Rosenqvist, Prof.

Christian Bay, Political Science

Senn Maudal, Physicist

Oistein Strömnaes, Geneticist

Ernst Fozre, Dr. philos. chem. oceanography

Johan T. Ruud, Professor

Per Ottedal, Biologist

Johan Forgersen, Professor Anatomy

Kaare Strøm, Professor

Georg Hygen, Professor plant physiology

R. Eker, Dr. Med. Director

O. Koller, Gynacologist

Odd Hassel, Professor

Trygve Braarud, Professor

SIGNATURES OF PANAMANIAN SCIENTISTS

Total number, 2

Panama:

Dr. Lawrence S. McCowan, Prof.

Dr. Phil Erich Graetz, Prof.

SIGNATURES OF PERUVIAN SCIENTISTS

Total number, 1

Lima:

Gaston Pons Muzzo, Chemist, Prof. of Physical Chem., Facultad de Quimica de la Univ. Nacional Mayor de San Marcos de Lima.

SIGNATURES OF POLISH SCIENTISTS

Total number, 84

Warsaw:

L. Infeld, Univ. Prof.
[illegible] Jolson, Univ. Prof.
[illegible] Kamila, Univ. Prof.
[illegible] Childerski, Univ. Prof.
[illegible] Ignatski, Univ. Prof.
[illegible] Lojko, Univ. Prof.
[illegible] Zlotowski, Univ. Prof.
T. Chmielewske, Univ. Prof.

Polish Academy of Science

T. Jaczewski
[illegible] Niemierko
T. Manteuffel
Andrzej Biernaczi
Roman Kozlowski
W. Szafer, Krakow
J. Wasilkowski

K. Kuratowski, Univ. Prof.

A. Smialowski, Prof., Polytech. Univ.

L. Paszkiewicz, Prof., Med. Acad.

A. Gruca, Prof., Med. Acad.

J. Supniewski, Prof., Med. Acad.

W. Rubinowicz, Univ. Prof.
W. Swietoslawski, Univ. Prof.
St. Minc, Univ. Prof.
T. Urbanski, Univ. Prof.
K. Michalski, Univ. Prof.
T. Ciborowski, Univ. Prof.
A. Orszagh, Univ. Prof.

W. Michajtow
H. Jabtonski
W. Orlowski
Olig Michatowicz
M. Czaja
S. Leszczycki
T. Kotarbinski, Univ. Prof.

W. Zawadowski, Prof., Med. Acad.

J. Groszkowski, Prof., Tech. Univ.

E. Mikulaszek, Prof., Med. Acad.

J. Heller, Prof., Med. Acad.

B. Bobranski, Prof., Med. Acad. Wroclaw

M. Danysz, Univ. of Warsaw

T. Baranowski, Prof., M.D., Med. School, Wrocklaw

Wl. Missiuro, Prof., M.D., Med. School

E. Czarnecki, Prof., M.D., Poznan

J. Konorski, Prof. Polish Acad. of Science

H. Brokman, Prof., Med. Acad.

J. Dabrowski, Prof., U.J., Krakow

I. Reifer, Prof. Agr. College

Hirszfeld Hanna, M.D., Prof., Wroctaw

Falkiewiczantoni, Prof. Univ. Med., Wroctaw

Szczeklik Solveral, Prof., Intern. Med., Wroctaw

T. Marciniak, M.D., Prof., Anatomy, Wroctaw

Witold Zawadowski, Prof., Radiology, Med. School, Warsaw

T. Kotarbinski, Prof. of Logic, Warsaw Univ., Pres. of Polish Acad. of Science

Witold Nowacki, Dr. Prof. Univ. Warsaw

Witold Szymanonski, Prof., Tech. Univ., Warsaw

Ignacy Malecki, Prof., Tech. Univ. Warsaw

L. Sosnowski, Univ. Prof.

Fr. Czubalski, Prof., M.D., Med. School

Z. Stolzmann, Prof., M.D., Ph.D., Med. School, Poznan

B. Gutowski, Prof., M.D.

Janina Hurynowicz, Prof., Uniwersytet Torun, Torun

W. Goetel, Prof., A.G. H., Krakow

J. Litwiniszyn, Prof. A.G. H., Krakow

Irena Mochnacka, Prof., Med. School Univ.

Knaster Bronislaw, Ph.D., Prof. Math., Wroctaw

Slopek Stefan, M.D., Prof., Microbiology, Wroctaw

T. Hane, Prof., Pharmacology, Med. School, Wroctaw

L. Skurska, Ph.D., Lecturer, Microbiology, Wroctaw

Brill Pulinsz, Prof., Microbiology, Warsaw

Henryk Makower, M.D., M. Ph. Assoc. Prof., Microbiol. Wroclaw

Robert Szewalski, Prof., Mech. Eng., Tech. Univ. Gdansk

Janusz Jakubowski, Prof., Tech. Univ., Warsaw

Edward Czetwertynski, Prof., Tech. Univ. Warsaw

Jerzy T. Skowronski, Prof. Dr., Wroclaw

Pawet J. Nowacki, Prof. Dr. Tech. Univ., Warsaw

Boledan Pniewski, Prof. Dr. Warsaw Polit., Warsaw

Boldan Hofanowski, Dr., M.C. Prof., Warsaw

Francinek Szelagowski, Prof. Dr. Warsaw Polit., Warsaw

Stanislaw Mazur, Prof., Math., Warsaw

Janusz Groszkowski, Prof. Dr. Tech. Univ., Warsaw

Michat Lunc, Prof. Dr., Warsaw Univ., Warsaw

Z. Macrewski, Prof. Dr., Warsaw Polit., Warsaw

Witold Wienbian, Prof. Dr., Warsaw Polit., Warsaw

Dr. Stanislaw Fryre, Prof.

SIGNATURES OF PORTUGESE SCIENTISTS

Total number, 1

Aveiro:

Angelo C. Lopes

SIGNATURES OF ROMANIAN SCIENTISTS

Total number, 2749

Bucuresti:

I. C. Parhon, Professor endocrinology

Aurel Potop, Professor physician

T. S. Gheorghiu, Professor elect. engineer

Ghetie Vasile, Professor Univ. Membru Cor.

Cordeianu Teabor, Prof., Univ. Membru Corsp. Acad

Const. D. Chiritscu, Membru Coresp. al Acad. R.P.R.

Wilhelm Knechtel, Academicia, Sinaia

Iliescu Grigore, Prof. Univ. Or. Stalin, Membru Coresp. Academia R.P.R.

Popovich T., Prof. Univ., Memb. Coresp. al Academia

Teodoreanu Nicolae, Membru Coresp. al Academia

Ocrejanu Grigore, Prof. Univ., Membru Coresp. Academia R.P.R.

I. Dimitriu, Conf. universitar

Antonescu S. Constantin, Prof. Facult. St. Naturale

T. C. Tesobescu, cercetator principal Academia R.P.R.

Tr. Savulescu, Professor biologist

E. Angelescu, Professor chemist

Al. Sanielevici, Professor physician

Botoarius Nicolae, Conf. universitar

Mihail Fonescu, Professor Univ. Bucuresti, M.c. A.R.P.R.

Const. C. Georgescu, Membru Coresp. al Acad. R.P.R.

Constantin T. Monohaclie Prof., Univ. Bucuresti

Popescu-Zeletin Ion, Prof. Univ., Membru Coresp. al Academia R.P.R.

Cernescu C. Niculae, Prof. Univ., Membru Coresp. Acad. R.P.R.

Radulescu Eugen, Prof. Univ., Membru Coresp. Academ. R.P.R.

Anghel Nicolae, ing. Secretar Stimlific de Scatie

Mihalca Veronica, cercetator stimtific

Serbescu M. D., cercetator principal

Vlad Pascanu, cercetator principal al Academiei R.P.R.

Pantazopol Dan, Cercetator principal T.M.A.

Procopovici E., Cercetator I.M.A.

Tancu Alexandra, sef sector I.M.A.

Jonescu Mircea, Cercetator principal I.M.A.

Mataescu Dan, Cercetator I.M.A.

Al. Nicae, Cercetator I.M.A.

Dinca N. Ion, ing. Cercet.

Freund Petre, Cercetator

W. Gilian, sef. de Sectrator

Mitricu Ilie, Cercetator

Calciu Mihai, Cercetator aj.

Zelinofer Neftule, Cercetator princip.

Manescu Vasile, Cercetator

Visarion Viorel, Cercetator

Teodorescu P. Petre, Cercetator principal I.M.A.

Wastoscu Adriana, Cercetator I.M.A.

Mincu Mune, Cercetator aj. I.M.A.

L. Rojeauscu, Sef sector

Zaharescu Anibal, Cercetator aj.

Calcan Victor, Cercetator

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Bagiu Edit, Preparatoare
Bagiu Lucian, Asistent
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Mioc Vasile, Conf.
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Brad Josif, Sef de Lab.
Novac Ioan, Sef de lucrari
Czeisler Ladislau, Asistent
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W. Schaffer, Professor of Physics

J. N. Darrod, Lect. Math.

Martin J. Pollard, Assoc. Prof. Applied Math.

K. H. Schutte, Lect. Botany

Don. Edwyn Isaac, Prof. Botany

E. S. Twyman, Prof. Botany, Grahamstown

J. G. Taylor, Sr. Lect. Psychol.

M. Mathias, Lect. Geology

D. H. Davies, Lect. Geography

L. Impey, Lect. Geography

M. Tredenheim, Lect. Physiology

N. Sapeika, Assoc. Prof. Pharm.

J. H. Day, Prof. Zoology

B. T. Kingsman, Assoc. Prof. Zoology

E. H. Rolson, Jr. Lect. Zoology

K.M.F. Scott, Res. Worker Zoology

R. Armbel, Sr. Lect. Chem.

A.M. Stiple, Lect. Organic Chem.

J.W.F. Juritz, Lect. Physics

E. N. Grindley, Sr. Lect. Physics

D. B. Lean, Professor of Math.

K. O. Household, Lect. Math.

B. Abrahamson, Lect. Math.

E. A. Schulze, Sr. Lect. Botany

D. C. Olivier, Lect. Botany

N. R. L. Hall, Prof. Psychol. Grahamstown

E.S.W. Simpson, Prof. Geology

A. O. Fuller, Lect. Geology

E. E. Cumming, Lect. Geography

H. Gravenstein, Assoc. Prof. Physiology

L. E.Alberts, Jr. Lect. Physiology

A. G. Ramsay, Lect. Physiology

H.A.H. Millard, Lect. Zoology

Nellie F. Pakison, Lect. Zoology

A. C.Brown, Jr. Lect. Zoology

F. H. Kimber, Prof. Organic Chem.

A.H. Spone, Sr. Lect. Chem.

H. H. Fay, Lect. Chemistry

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Carlos Gil y Gil, Professor, Medicine

SIGNATURES OF SWEDISH SCIENTISTS

Total number, 2

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Hugo Theorell, Professor

Tiselius, Arne, Prof. Biochem. Uppsala

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Emile Briner, Professeur honor. de chimie

Emile Cherbuliez, Professeur de chimie organique

Jean M. Posternak, Professeur de physiologie

L. Franceschetti, Professeur d'ophtalmologie

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P. Chodat, Professeur de botanique

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Leopold Ruzicka, Professor of organic chemistry, Zürich

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Total number, 20

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Prof. Yen Suntavijarn, Physics

Dr. Prasom Smitanond, Chemist

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Prof. Chow Koon Sanitanvitet, Astronomer

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Dr. Charsen Tamabanit, Cosmology

Thong Sook Bongsadadt, Chem. Dept.

Dr. Pimol Kolakit, Physics U.N.E.S.C.O., Paris France

Prof. Emeleus, Inorganic Chem., Pembroke College, Cambridge

Dr. Pinpat Pithayabit, M.D., Siriraj Hospital

Prof. Watanabe, Crystallography Osaka Univ., Japan

Dr. Amnuay, Radiology, Siriraj Hospital

Dr. Chachawalya, Obstetrician, Siriraj Hospital

SIGNATURES OF TURKISH SCIENTISTS

Total number, 5

Ankara:

Mustafa Suner, Professor

Muharrem Köksal, Professor

Izzet Kantemir, Professor

Kazim Aras, Dean of Science, Professor

Ihsan Dogramaci, Professor

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Ward Pigman

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Frederick Kraus

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Stewart Becker

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Earle K. Plyler

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Coral Gables:

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Arnold Perlmutter

Richard Bourich

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Miami:

Pat Zwillinger

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Russell J. Keirs

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Argonne Nat. Lab.:

Leo Seren

Thomas S. Gilbert

Aurora:

Paul G. Fisher

Carbondale:

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John A. Dudman

PENNSYLVANIA:

Bethlehem:

Peter Havas

Walter J. Scott, Jr.

Carlisle:

Kenneth L. Andrew

Haverford:

Albert H. Wilson

Cletus Oakley

Aaron Lemonick

Robert Walter

Louis C. Green

Theodore B. Hetzel

Melvin Santer

Jean W. Whitall

Lancaster:

Ruth Van Horn

Freda Snavely

Henry N. Williams

Frank K. Mears, Jr.

Virginia G. Mears

Lewisburg:

B. R. Willeford

PENNSYLVANIA:

Philadelphia:

C. W. Metz

Comfort A. Adams

C. C. Price

M. Frances Havas

Elmer Goetz, Jr.

G. Theodore Peters

Maria Peters

William A. Hargrave

Dan Carlson

Wendell C. Aldred

William S. Burton

Kenneth E. Schroder

Adelbert Mann

Richard H. McFeely

Donald L. Pierce

James A. Tempest

John T. Carson, Jr.

Charles K. Brown, III

Frederick W. Lewin

Jan L. Levy

Eugene R. Raiford

Herbert Shapiro

Max B. Lurie

Arthur M. Dannenberg, Jr.

Irene C. Diller

George T. Rudkin

Ida K. Langman

Alburt M. Rosenberg

C. C. Price

Stuart Mudd

Wm. C. Stadie

Jean Piatt

Valy Menkin

James M. Sprague

William W. Chambers

Alan G. MacDiarmid

John O. M. Bockris

Werner Henle

D. Wright Wilson

M. G. Sevag

Howard Holzen

John M. Marshall, Jr.

Joan Abbott

James W. Lash

Henry Finck

Sydney Ellis

Howard W. Robinson

Hans Rademacher

W. H. Gottschalk

Nathan J. Fine

PENNSYLVANIA:

Philadelphia:

Ariel G. Loewy
Robert C. James
Elizabeth U. Green
Donald L. Kimmel
Earle H. Spaulding
M. Jane Oesterling
Robert A. Clark
Joseph Engelberg
W. E. Graham
D. J. O'Kane
Dwight McLair Scott
Sidney D. Rodenberg
George L. Evans
W. G. Hutchinson
Arthur S. Brill
Lucile Smith
Thomas Fukuyama
Ronald W. Estabrook
Geo. M. Piersol
Edna Larson
Robert J. Rutman
Helen Conrad
Masotze Koike
Theodore Sell
Skira Yoshida
Kaneo Ishiu
Edith Gollub
John A. Flick
Frank A. Kapral
Joseph S. Getz
Allan R. Day
Donald C. Dittmer
E. C. Evers
Eugene R. Nixon
Robert E. Hughes
John G. Miller
J. F. Hazel
Claude K. Deischer
Wallace M. McNabb
A. K. Sen
Shigem Oae
A. K. Bose
M. Takebayashi
Joseph Stokes
Joel G. Flaks
Gertrude Henle
Susanna Harris
Fred Karush
Gabor Markus
Theodore B. Cohen

PENNSYLVANIA:

Philadelphia:

M. M. Samitz

J. Lloyd Bohn

Leonard Shuldamer

Elmer L. Offenbacher

Mary L. Haibold

M. Catherine Hinchey

B. E. Hall

H. N. Stoudt

M. J. Keen

Harold T. Bernhardt

W. J. Dunning

Elizabeth Rumsill

Hazel M. Tomlinson

Floyd T. Tyson

Clarence Hodges

Richard M. Stavseth

J. Malvern Benjamin, Jr.

George C. Henny

Joseph Tabachnick

Charles Weiss

Robert Stucklen

David Seligson

Henry A. Shenkin

Seymour S. Cohen

Julian B. Marsh

Adelaide M. Dolluva

James H. Jones

Henry A. Sloveter

Wallace W. McCrary

Robert Kaye

Rachel Ash

Bernard M. Wagner

David S. Fleisher

Sidney Friedman

Alfred M. Brynmuir

Richard L. Burling

Norman E. Folster

Pittsburgh:

David Halliday

G. A. Jeffrey

Ronald Bentley

Eric Ellenbogen

George J. Levinskas

Mary Jane Clark

Herman Cember

Lincoln Wolfenstein

Robert T. Siegel

Donald A. Wiegand

George W. Hinman

Richard E. Cutkosky

PENNSYLVANIA:

Pittsburgh:

Stanley Marder
Julius Ashkin
Thomas A. Romanowski
John G. Fox
L. George Lang
Walter I. Goldburg
Paul M. Marcus
Henry S. Frank
Theodore Cohen
W. E. Baldwin
D. M. McDaniel
Jerome L. Rosenberg
T. H. Dunkelberger
H. H. Dalglish
Roland Schinzinger
R. R. Bizon
E. King
Wm. C. Brenner
Richard Abrams
Mary Edmonds
Marian Benetey
Harold L. Segal
Peter S. Clnstral
Frank M. Mateer
John C. Donaldson
Theodore B. Rosenthal
Melvin Hess
Jacob Proman
Richard S. Farr
Francais Lanny
Hans Noll
Aaron H. Stock
J. S. Youngner
M. A. Holliday
Campbell Mores
Gerald P. Rodrean
Wallace N. Jensen
Max A. Lauffer
Martin Hanig
David Coahran
Winthrop M. Leeds
Rex A. Alltenger
David Trkula
Allen J. Ansevin
Thomas M. Donahue
Ezra Newman
W. M. Benesch
John R. Cameron
John R. Townsend
Frederic Keffer

PENNSYLVANIA:

Pittsburgh:

Sydney Meshkov

Jiro Yamashita

Norman Austern

Mary Beth Stearns

Edward Geyring

Richard H. McCoy

Joseph J. Taber

George B. Thorp

Norman B. Deweet

A. E. Axelrod

T. H. Davies

John H. Anderson

William C. Koth

Harold G. Richter

Truman P. Kohman

Southampton:

Edward G. Ramberg

W. F. Maxfield

M. H. Hurwitz

R. D. Eames

S. C. Kelton, Jr.

E. H. Kracher

Fred F. Klett

John R. Ewbank

Burton W. Dempster

Sidney Spaeth

Brooks Stewart

Charles E. Lampe

Richard D. Gross

State College:

Raymond Pepinsky

Robert W. Taft, Jr.

Julian Eisenstein

Rolf Gerhard Winter

T. K. McCubbin, Jr.

C. H. Blanchard

E. L. Murphy

Vernon W. Myers

Swarthmore:

Wolfgang Köhler

University Park:

Adam Anthony

Eugene Ackerman

RHODE ISLAND:

Charlestown:

Annemarie L. Robinow

Providence:

G. Y. Rainich

TENNESSEE:

Knoxville:

David T. King

W. E. Deeds

A. H. Nielsen

C. J. Craven

Memphis:

Friedof P. J. Dicks

E. L. McCandless

Hortense Louckes

Nashville:

P. E. Stewart

Arthur S. Cory

T. M. Gregory

E. G. High

C. W. Wright

William Bright

G. J. Tarleton

Matthew Walker

L. O. Perry

E. Perry Crump

George B. Brothers

John F. Williams

L. E. Burgess

Isaac H. Miller, Jr.

M. E. Zenley

Gertrude Fleming Rempfer

Conrade Carlyle Hinds

Howard J. Foster

Albert H. Woollett

Robert W. Rempfer

Marion Erwin Williams

Albert O. Williams

J. Anjoy M. Germon

Wendell G. Holladay

M. B. Townes

D. C. Gandy

S. R. Whitman

D. E. Simmons

L. Haynes

R. M. Prigmore

Gilbert W. Gerter

Charles M. Goolsby

Wm. M. Jackson

H. E. Lash

Geo. Hull

Joyce C. Bobo

Gladys B. Adams

Oak Ridge:

R. W. Lamphere

TEXAS:

Amarillo:

Marvin Cuen Embry

TEXAS:

Austin:

Robert P. Wagner

Hugh S. Forrest

Burke H. Judd

A. R. Schrank

J. W. Foster

Orville Wyss

W. Frank Blair

Clark Hubbs

Galveston:

Albert A. Benedict

Chauncey Leake

Houston:

M. King Hubbert

Elmer Eisner

Emanuel Baskir

John Treavor Smith

Peter K. Weyl

Albert Abrams

Joseph Reisberg

Charles C. Templeton

Herbert Kanner

UTAH:

Logan:

W. S. Boyle

Richard J. Shaw

Coburn Williams

Gene W. Miller

A. H. Hohngren

Herman Wiebe

Dayner Stocks

George W. Cochran

Ralph W. Ames

Bryce N. Wadley

Arden Frandsen

Norman Bauer

Melvin C. Cannon

Harris O. Van Arden

G. Lew Choules

John K. Wood

E. W. Pfeiffer

I. L. Bahler

Clyde M. Senger

Allen W. Stokes

Salt Lake City:

Stanley Marcus

Stewart C. Harvey

Don W. Esplin

Herbert L. Borison

Alan Koch

Douglas W. Hill

Eugene H. Perkins

Paul S. Nichols

Bruce O. Watkins

UTAH:

Salt Lake City:

E. Frank Deig

A. C. Bubel

John G. Bachtold

Sherman Dickman

R. D. Higginbotham

Webster S. S. Jee

Boyd W. Scuder

J. S. Loewe

Louis Goodman

Edward Fingl

VERMONT:

Waterville:

J. H. Shrader

Roger W. Marin

VIRGINIA:

Arlington:

Ralph E. Lapp

J. J. Shoman

Blacksburg:

Martin O. L. Spangler

Charlottesville:

S. A. Mitchell

Fort Monroe:

E. Lee Purlee

WASHINGTON:

Seattle and vicinity:

Arthur W. Martin

H. Weston Blaser

Robert L. Fernald

R. C. Snyder

Dixy Lee Ray

W. T. Edmondson

Melville H. Hatch

Yvette H. Edmondson

K. K. Osterud

Frank Richardson

Paul L. Illg

Arthur H. Whiteley

Daniel E. Stuntz

Ernst Florey

Elizabeth Florey

Edwin A. Uehling

Boris A. Jacobsohn

Seth Neddermeyer

Isaac Halpern

Ernest M. Henley

R. Geballe

David Bodansky

Frederick L. Scarf

John S. Blair

WASHINGTON:

Seattle and vicinity:

Carl F. Allendoerfer

Roy B. Leipnik

Robert A. Hall

Albert Nijenhuis

John C. Varady, Jr.

Richard D. Mayer

Robert T. Ives

Robert T. Phelps

Billy L. Foster

J. Maurice Kingston

Ross A. Beaumont

Arthur E. Livingston

Laurence E. Wilson

Basil G. Anex

Barbara E. Tews

M. B. Silverman

B. J. D. Meeuse

Jean M. C. Kraut

A. R. Knickeberg

Richard B. Walker

David R. Stadler

Howard V. Rickenberg

H. R. Whiteley

Stanley A. Zahler

Neal B. Croman

C. A. Evans

Floyd Schmoe

Charles H. James

Harold Carson

Harry Burk

WEST VIRGINIA:

Morgantown:

Leland H. Taylor

WISCONSIN:

Madison:

William E. Stone

Philip Plohen

Lawrence F. Dahl

Edward M. Kosomer

Karl Paul Link

William E. Stone

Hugh H. Iltis

W. Plaut

Jonathan Sauer

Eldon Newcomb

Hans Ris

William G. Reeder

D. H. Bucklin

John Emlen

Harold R. Wolfe

L. A. Fraser

Lowell E. Noland

WISCONSIN:

Madison:

Paul J. Allen

Richard J. Evans

W. F. Millington

M. P. Backus

Nellie M. Bilstad

John C. Neess

J. F. Stauffer

R. K. Meyer

M. R. Irwin

Sewall Wright

Delmer C. Cooper

R. A. Brink

W. H. Stone

N. E. Marton

A. B. Chapman

W. A. B. Thomson

Philip L. Tandmen

B. J. Buyan

Roy S. Dombro

Malcolm H. von Saltya

J. M. Sehgal

Karl R. Guenter

Donald J. Siehs

Carlton F. Dresden

John T. Garbutt

Wen Chih Liu

Werner Jaffe

F. M. Strong

R. Raechey

M. L. Johnson

Fred H. Bergmann

Norbert P. Neumann

Graciela Delhumeau

Toshio Yamada

Francis D. Hole

ALASKA:

Anchorage:

Mildred S. Wilson

College:

Chas. T. Genaux

Albert W. Johnson

John L. Burkley

Frederick C. Dean

Victor P. Hessler

Alfred M. Bark

Nalin R. Mukhyie

Albert C. Claus

HAWAII:

Honolulu:

John F. Mink

Fred I. Gilbert, Jr.

Linus Pauling, Jr.

SIGNATURES OF URUGUAYAN SCIENTISTS

Total number, 9

Montevideo:

Mario Cassinoni, Rector de la Universidad, Biophysicist

Jorge Chebataroff, Geographer

Gabriel Gerard, M.D., Histologo

Felix Cernuschi, Physicist, Astrophys.

Maria Elena Beceiro, Physical Chem.

Juan Jose Vinoles, Med.

A. M. Grompone, Dir. del Inst. de Profesoros "Artigas"

Constancio Lazaro, Geneticist

Antonio Petracca, Mathematics

SIGNATURES OF PAKISTANI SCIENTISTS

Total number, 1

Peshawar:

Dr. Abdul Majid Mian, Principal Islamia College, University of Peshawar

SIGNATURES OF YUGOSLAVIAN SCIENTISTS

Total number, 38

Beograd:

Dr. Dorislav Blagojevic, Rector of Univ.

Dr. Stojan Pavlovic, Prof.

Dr. Milutin Radovanovic, Prof. Zoology

S. Pavle Tspinac, Prof. Biochem.

Gj. Stefenovic, Prof.

D. S. Sejivic, Prof.

Dr. Vukic M. Micovic, Prof. Chemistry

Dr. S. Grosduvic, Prof.

Dr. Bozidas S. Djordjorvic, Vice-Rector Univ.

Dr. Ilija Djuziaic, Prof.

Dr. Dragiza Ivanovic, Assoc. Prof. Physics

Zagreb:

Ivan Tupek, Prof., Theoret. Physics

I. Jauliemo, Prof. Applied Math.

Mihovil Prostenik, Prof. Chem.

Mladen Paic, Prof. Physics

Kresimir Baleuovic, Prof. Organic Chem.

Nozo Terak, Prof. Physical Chem.

Ljuolana:

Dr. Leo Savnik, Prof. Med. Fac.

B. Lavric, Prof. Surgery

G. Vidao, Prof. Math.

A. .. Valcutonvic, Prof. Microbiol.

Dr. M. Perpar, Prof. Org. Chem.

F. Kuker, Lect. Physics

A. Schiber, Prof. Physiology

F. Razovic, Prof. Geology

O. Reya, Prof. Meteorology

E. Mayer, Prof. Botany

J. Hadic, Prof. Chemistry

Dr. Mary Aucin, Prof. Child Health and Pediatrics

G. Peterlin, Prof. Physics

S. Dominaco, Prof. Astronomy

J. Hadel, Prof. Zoology

D. Shucov, Docent, Med. Fac.

A. Hosic, Prof. Histol. and Embryol.

D. Auren, Prof. Appl Mech.

C. Braduvic, Prof.

C. Komazic, Prof. Botany

L. Knop, Prof. Chemistry

APPENDIX NO. III

EXHIBIT NO. 8

Following is the letter and a typewritten list of 1,803 names which Dr. Pauling submitted to the U.N. as additional signers of his petition (no actual signatures were presented either to the U.N. or to the Subcommittee):

CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA

GATES AND CRELLIN LABORATORIES OF CHEMISTRY

JUL 1958

McCordie

3 July 1958

Po/130

Mr. Dag Hammarskjold
Secretary-General
The United Nations
New York, N.Y.

Dear Mr. Hammarskjold:

On 13 January 1958 I presented to you a Petition to the United Nations urging that an international agreement to stop the testing of nuclear bombs be made now. This petition was presented in the name of Professor Linus Pauling and 9234 other scientists, representing 46 nations. A list of names of the 9235 signers of the petition was given to you, with the petition itself.

I now have the pleasure of a second list of names of signers of the petition. The scientists whose names are given on this second list number 1803, so that the total number of signers has now reached 11,038. The total number of countries now represented is 49. In the accompanying table, dated 15 June, 1958, the total number of scientists who have signed the petition are listed by countries.

I ask now that the second list of names of scientists who have signed the petition of 13 January 1958 be attached to the petition and the first list of names.

Respectfully yours,

Linus Pauling

Linus Pauling:w
Encl.

SIGNATURES OF ARGENTINIAN SCIENTISTS

Total Number: 56

Buenos Aires: The University of Buenos Aires

Mario Bunge, Physicist
Mischa Cotlar, Mathematician
Lorenzo F. Aristarani, Geologist
Aristides J. B. Romero, Geologist
Felix Gonzalez-Bonerino, Geologist
Cora Ratto de Sadosky, Mathematician
Juan V. Valencia, Biologist
Rolando Garcia, Meteorologist
Riesieri Frondisi, Philosophy
Manuel Sadosky, Mathematician
Andres Levaldi, Physicist

Prof. Dr. Alejandro Ceballos
Prof. Dr. Florenzio Escardo
Prof. Dr. Gino Germani
Prof. Dr. Jose Westerkampf
Prof. Dr. Andrea Levialdi
J. Francisco Luis Bellomio
Dr. Samuel Kohan
Dr. Alfredo L. Palacios
Dr. Ignazio Pirosky
Prof. Dr. Jose Belbey
Dr. Jorge Viaggio
Prof. Dr. Pablo Chamussot
Prof. Dr. Andrea Levialdi
Dr. Luis Boffi
Dr. Lepanto Bianchi
Prof. Dr. Manuel Litter
Prof. Dr. Ricardo Crespi
Prof. Dr. Nicolas Romano
Prof. Dr. Moises Polack
Prof. Dr. Aristides Romano
Prof. Dr. Fidel Alsina Fuertes
Dr. Lepanto Bianchi
Oscar Alende
Prof. Dr. Jose Peco
Prof. Dr. Jose F. Punturu
Lorenzo R. Parodi, Agric. Engineer
Dr. Juan Ignacio Zorilla
Prof. Dr. Manuel Ruiz Moreno
Prof. Dr. Alberto Garcia
Dra. Elena Pennini de De Vega
Ing. Besio Nicolas Moreno
Prof. Dr. Luis Gravano
Dr. Hector Del Campo
Dr. Isaac Novizki

Total Signatures

Argentina	56	Japan	1,161
Australia	8	Jordan	11
Austria	1	Lebanon	1
Belgian Congo	6	Mexico	23
Belgium	43	Netherlands	29
Brazil	152	New Zealand	119
Bulgaria	392	Norway	112
Burma	50	Panama	2
Canada	24	Peru	1
Ceylon	27	Poland	86
China	4	Portugal	1
Columbia	34	Romania	2,749
Czechoslovakia	284	South Africa	41
Denmark	53	Spain	7
Ecuador	13	Sweden	2
Egypt	236	Switzerland	13
France	463	Thailand	20
Germany	151	Turkey	5
Ghana	1	Uruguay	9
Great Britain	719	U.S.S.R.	216
Greece	1	Venezuela	19
India	535	West Pakistan	1
Israel	57	Yugoslavia	38
Italy	179	U.S.A.	2,874
Ireland	9		
		Total:	11,038

June 15,1958

Prof. Dr. Carlos Guerra

Prof. Dr. Pedro Leon

Prof. Ing. Juan y Valencia

Prof. Dr. Jaime Cullere

Prof. Dr. Ricardo Podio

Prof. Ing. Jose Babini

Dr. Luciano Catalano

Prof. Dr. Luis Munist

Prof. Ing. Castellano Posse

Prof. Dr. Tomas Villajane Lastra

Prof. Dr. Alejandro Martin

61234 O—60——20

SIGNATURES OF BRAZILIAN SCIENTISTS

Total Number: 60

Rio de Janeiro: Instituto Oswaldo Cruz

H. Moussatche

G. G. Villela

Herman Lent

Amadeu Cury

Mario Vianna Dias

W. Lobate Paraense

A. Prouvost-Danon

Instituto Butantan

Sebastiao B. Henriques

Olga B. Henriques

A. Vallejo

Saul Schemberg

Universidate do Brasil

Anisio Teixeira, Faculdade de Filosofia

Arnould Rocha e Silva, Faculdade de Ciencias Medicas

Lauro Sollere, Faculdade Nacional de Medicina

Oswaldo Frota Pessoa, Faculdade Nacional de Filosofia

Maria Laura Leite Lopes, Faculdade Nacional de Filosofia

Paulo de Goes, Faculdade de Medicina

Centro Brasileiro de Pesquisas Fisicas

J. Leite Lopes

Elisa Frota Pessea

Jaime Tiomno

Cesar Lattes

Escola Nacional de Quimica

Augusto L. Zamith

Jaques Danon

Museu Nacional

Jose Candido de Carvalho Carlos Paula Couto

Arthur Moses, Academia Brasileira de Ciencias

J. Leal do Prado, Escola Paulista de Medicina

Metri Bacila, Instituto de Biologia e Pesquisas Tecnologicas

Hugo de Souza Lopes, Escola de Veterinaria Universidade Rural

Joao C. Perrone, Instituto Nacional de Tecnologia

Luiz F. G. Labouriau, Jardim Botanico

Dacio Franco Amaral Vicente Amate Netto

Renato Toledo Pizza

Sao Paulo: University of Sao Paulo

Faculdade de Medicina:

W. T. Beraldo Michel Rabinovith

Hanna Rothschild Franklin de Moura Campos

Carlos da Silva Lacas Leonidas Mello Deane

Odorico Machade de Souza Luiz Carlos Junqueira

Alberto Carvalho da Silva Samuel Pessoa

Jose Ferreira Fernandes Isaias Raw

Instituto Biologico:

Mauricio Rocha e Silva Paulo Mello Freire

Adolfe Martins Penha

Faculdade de Filosofia:

Mario Schemberg **Jose Goldenberg**

Haim Samuel Hönig **Candido Silva Dias**

Erasmo G. Mendes

Henrique Tastaldi, Escola de Veterinaria

Ricardo Carvalho Ferreira, Escola de Quimica da Univ. de Recife

Georgio Schreiber, Faculdade de Filosofia, Univ. de Minas Gerais

Carlos Ribeiro Dinis, Faculdade de Medicina de Ribeirao Preto

Antonio Gomes de Matos, Junior, Chemical Engineer, Univ. de Recife

Dra. Naide Regueira Teodosio, Physiologist, Univ. de Recife

SIGNATURES OF BELGIAN SCIENTISTS

Total Number: 2

Brussels:

Charles Paelinck Louis Empain

SIGNATURES OF BULGARIAN SCIENTISTS
Total : 301

Sofia:

Academy of Sciences:

Acad. Todor Pavlov, President, Philosophy

Acad. George Nedjakov, Vice President, Nuclear Physics

Agrege de recherches (Academy of Science)

Ivan Oundjiev, Secretary of the Union of scientific workers

Dr. George Boyadjiev, Biologist

Mme Maria Chichikova, Archeologist

Dr. Anguel Kalaydjiev, Biochemist

Prof. Pentcho Drensky, Natural Sciences

Rayko Zachev, Mathematician

Mme Malina Malcheva Popova, Astronomer

Institut Superieur de Medicine:

Acad. Vladimir Markov, Director of Institute of Microbiology, Microbiologist

Prof. Radoy Popivanov, Biologist

Prof. Boris Koytchev, Biochemist

Prof. Nikola Chipkovenski, Psychiatry

Mme. Ecatherine Chahanova, Medicine and Psychiatry, retd.

Union of Scientific Workers:

Acad. Michail Dimitrov, President, Historian and Philosopher

Nikola Aganski, Vice President, Sociologist

Prof. Lubomir Kristanov, Director of the Meteorological Institut, Meteorologist

Prof. Boris Zagorchev, Rector of the Institute of chemical Technology, Chemist

Institut Superieur d'Economie:

Prof. Dimiter Yordanov, Dean of the Faculty

Prof. Anastass Andreychin, economist

Boris Lozanov, Lawyer, Deputy of Parliament

Nedelcho Branev, Lawyer, membre du Tribunal Supreme de la Republique

university of Sofia:

Acad. Kiril A. Popov, Prof. of Mathematics

Prof. Ivan Nenov, Prof. of Law

Prof. Emile Guerguiev, Prof. of Literature

Mme Slava Mitovska, Dean of faculty of Law

Prof. Jaroslov Tagamlicky, Prof. of Mathematics

Prof. Razoum Andreychin, Physicist

Mme Stefka Vassileva, Prof. of Literature

Prof. Petko Radomirov, Prof. of Agronomy

Prof. Christo Christov, Prof. of History

Prof. Vladimir Poutikov, Prof. of International Law

Varvari Barov, physicist

Mme Dr. Luba Dramalieva, Prof. of Philology

Nikola Kondarev, Historian

Prof. D. Ivanoff, Prof. of Physics

Michail Vaglenov, Professor

Prof. Christo Danov, Prof. of Literature

Prof. Gueorgiev Sirakov, Prof. of Sylviculture

Prof. Boris Eftimov, Prof. of Veterinary Medicine

Prof. Gotze Tenchov, Prof. of Biology, l'Institut pour le Perfection des medicins

Prof. Mosko Moskov, Recteur de l'Institut Superieur Veterinaire, Veterinarian

Dr. Assen Kaloyanov, Veterinarian

Mme Rada Todorova, President of the Women's Democratic Committee of Bulgaria

Astruk Kalev, Advocat

Michail Smatrakalev, Lawyer

Andrey Zvetkov, Historian

Dr. Kiril Gueorgiev, Advocat

Naum Christov, Lawyer

Guergui Borchoukov, Journalist

Plovdiv:

Prof. Ivan Kitev, Prof. of Biochemistry, Institut Superieur de Medicine

Sofia:

Members of the Academy:

Prof. Boris Stefanov, Rector, l'Institut Superieur de la Sylviculture

Prof. Lubomir Tchakalov — Prof. Alexandre Obretenov

Prof. Petko Staynov — Prof. Assen Chadjiolov

Prof. Ivan Bourech, Director, l'Institut de Zoology

Gueorguie Chlebarov, Director, l'Institut pour l'Elevage des animaux domestiques

Prof. Nikola Stoyanov, scientific secretary of the Academy of Science

Prof. Vladimir Gueorguiev — Chrastu Miatev, Director, l'Institut d'Archeologie

Prof. Todor Vladiguerov, Vice-Directeur de l'Institut Economique, Academie de Sciences

Dimiter Pandov, Vice Directeur de l'Institut Economique

Mme Elena Savova, Director, Library of the Academy of Science

Agrege de Recherches, Academy of Science:

Ilia Vodenitcharov — Prof. Nikola Kalitzine

University of Sofia:

Prof. Gueorgui Paspalev, Dean, Faculty of Geology, Biology and Géography

Prof. Simeon Roussakiev, Vice-Recteur — Prof. Alexandre Obretenov, Dean, Faculty of Architecture

Prof. Boris Spassov, Dean, Faculty of Law — Prof. Anguel Anguelov, Prof. of Law

Prof. Givko Stalev, Prof. of Law — Prof. Luben Vassilev, Prof. of Law, Director

Prof. Peter Gueorguiev, Prof. of Law — Mme Slava Mitovska, Charge de cours

Miltcho Kostov, Assistant — Prof. Vitali Tadger, Assistant

I. Mayer, Assistant — Prof. Michail Andreev, Prof. of Law

Doko Dokov, Agrege de recherches — Pavel Genkovski, Lawyer

Dr. Mme Vera Zlatareva, Advocat — Dr. Kiril Gueorguiev, Advocat

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K. Ivanov, Agrege de recherches

Mangarov, Agrege de recherches

Bijidar Bojikov, Director, l'Institut d'Etnographie

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Prof. Gentcho Piriov, Pedagogue

Alexandre Ivanov, economist (retd.)

Tzvetko Petkov, pedagogue (retd)

Peter Antov, economist (retd.)

Institut d'Archeologie:

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Stamen Michailov, Agrege de recherches

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Mme Bistra Tzvetkova, Agrege de recherches, l'Institut d'Histoire

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Prof. Christo Danov

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M. Radewa, Assistant

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Vassil Kotzev

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Mme Maria Kutchoukova

Roumen Bojkov

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Ilia Gadjalsky, Charge de cours

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Prof. Nikola Kolev

Mme Elena Dimitrova, Directeur de la Station d'Helmintologie

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Vassil Bogdanov

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Dimiter Dodov

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Dr. Sertev

Dr. Gueorgui Radev

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Kiro Kirov, Charge de cours

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Dr. Andrey Dimitrov

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Martin Glavnia

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Prof. Todor Christov

Dipl. Ong. Chr. IV. Tzeneff

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Totu Totev

Tchavdar Beyasov

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Prof. Dimiter Barov

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Panayot Stanev

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Gavril Yankov

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Krastu Vassilev
Juri Stoytchev
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Zvetko Stefanov, Engineer
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Plovdiv:

l'Institut Superieur d'Agriculture:

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Prof. Mintcho Marinov
Prof. Yoto Yotov
Guro Gurov, Cahrge de cours
Zlatko Bonev, Charge de cours
Eugenie Groueva

Mme Lilia Botoucharova, Agrege de recherches, Musee Archeologique

l'Institut de l'Alimentation:

Prof. Stoyko Stoykov
Peter Iliev, Charge de cours
Simeon Petrov, Assistant
Penu Penev, Charge de cours
Ilia Pachev, Charge de cours

l'Institut Superieur de Medecine:

Prof. Assen Chopov
Prof. Elysee Yanev
Prof. Assen Prodanov
Prof. Jivko Lambrev

Prof. Ivan Mitev

Prof. Michail Rachev

Assen Galabov, Charge de cours

Stefan Terziev, Charge de cours

Nikola Angelov, Assistant

Zvetko Simeonov, Assistant

Boris Iliev, Assistant

Mme Maria Stefanova, Assistant

Peter Chilev, Assistant

Dr. Boyan Hadjistamov

Peter Detv, Agrege de recherches

Atanas Sotirov, Charge de recherches

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Prof. Peter Mironov

Ivan Vapzarov, Charge de cours

Todor Sapoundjiev, Charge de cours

Petko Atanasov, Assistant

Hussein Kadirov, Assistant

Mme Dobrinka Atanassova, Assistant

Mintcho Dragiev, Assistant

Mme Ralitza Staykova, Assistant

Prof. Dr. Ivan Tzontchev

Prof. Kiril Tcholakov

Vladimir Ketzkarov (retd.)

Varna:

Dr. Lubomir Stanev, Vice-recteur de l'ISEN

Stefan Tzonev, Doyen a l'ISEN

l'Institut Superieur de l'Economie Nationale:

Beltcho Nikolov, Recteur

Prof. Petko Bliznakov

Dr. Boris Velikov

Prof. Nikola Gantchev

Gueorgui Dimov

Dimo Minev

Prof. Konstantin Todorov

Milko Mirtchev, Directeur du Musee

Gantcho Radev, Doyen

Prof. Boytcho Boytchev

Marko Valkanov, Charge de cours

Dr. Dimiter Gueorguiev

Nedu Karabachakov, Charge de cours

Dr. Karol Telbizov

Stanislav Chadjiev

Mme Goranka Tontcheva, Collaborateur au Musee

l'Institut de l'Industrie de pecheries et de piciculture:

Prof. Alexandre Valkanov, Directeur

Mme Maria Kare etkova, Agrege de recherches

Mme Vassilka Abadjieva, Agrege de recherches

Stefan Nikolov

Alexandre Rojdestvenski

Boris Roussev

Dr. Kiril Yordanov, Medecine, interne d'Hopital

Dr. Alexandre Medelkov, Medecin (retd.)

Dr. Marko Popov, Medecin (retd.)

Ing. Pantcho Pantchev (retd.)

Ing. Vesselin Savov

SIGNATURES OF BURMESE SCIENTISTS

Total Number: 50

RANGOON: Union of Burma Applied Research Institute

Thein Nyun, Senior Research Officer
U Than Nyint, Research Officer, Physicist
Khin Htut, Research Scientist
Tin Saw, Research Scientist
U Than Tin, Physicist
U Moe Nyint, Physicist
Hla Nyunt, Nuclear Physicist
F. Ba Hli, Electr. Engineer
Kyaw Nyun, Metallurgist
U Htay, Senior Research Officer, Chemist
Daw Ma Ma Lay, Research Officer, Chemist
Than Tin, Chemist
U Nyint Pe, Chem. Engineer
Tin Tin Nu, Botanist
Nyo Nyint, Chemist
Tha Hla, Geologist
Daw Than Tin, Chemist
Kyin Yi, Chemist
N. N. Saha, Biophysicist
J. Lynsdale, Zoologist
Ng. Kyaw, Chemist
U Aung Khin, Chemist
M. Thet San, Chemist
U Maung Maung, Electr. Engineer
U Tin Tun, Research Officer
Kan Sint, Research Scientist
Zaw Pe, Research Scientist
V. Kan Tin Sein, Physicist
U Mai Aung, Chemist
Cho Cho, Chemist
Sein M. Win, Nuclear Engineer
Yu Kyi, Ceramist
U Tun Hla, Research Officer, Chemist
Saw Tun, Chemist
B. K. Pal, Chemist
Pe Than, Pharmac. Engineer
Marina Chit Sein, Pharmac. Chemist
Sucharita Ghosh, Chemist
Dewan Mohinder Nath Nair, Botanist
Daw Kwin Lwin Thein, Chemist
U Kyaw Thaung, Chemist
Nyi Nyi, Geologist
U San Tun, Chemist
Po Tha, Chemist
B. K. Menon, Chemist
Than Than, Chemist

Khin Htay Myint, Chemist

Atomic Energy Center

Ba Shein, Research Officer **Soen Sein, Consultant**

Htin Nyo, Research Officer

SIGNATURES OF CANADIAN SCIENTISTS

Total: 1

Montreal:

Hans Zassenhaus, Prof. of Mathematics

SIGNATURES OF CZECHOSLOVAKIAN SCIENTISTS

Total Number : 25

Prague:

Academy of Sciences, Polarographic Institut

Professor J. Heyrovsky

J. Kuta, RNDr., C. Sc.

J. Volke, PhMr., RNDr.

K. Micka, Dpil. Chem., C. Sc.

P. Valenta, RNDr.

J. Koryta, RNDr.

J. Riha, RNDr., C. Sc.

I. Smoler, RNDr.

J. Masek, RNDr., C. Sc.

A.A. Vlcek, RNDr., C. Sc.

V. Volkova, PhMr., RNDr.

P. Zuman, RNDr.

M. Brezina, RNDr., C. Sc.

J. Peisker, RNDr., C. Sc.

J. Vogel, RNDr.

Academy of Sciences, Institute of Metallurgy

Z. Zabransky, RNDr.

Academy of Sciences, Institute of Nuclear Physics

J. Vodehnal, RNDr.

Institute of Industrial Hygiene

L. Jensovsky, RNDr.

K. Marha, Ing., C. Sc.

E. Knobloch, RNDr., Research Inst. of Pharmacy

J. Rousar, Ing. Technical University

S. Beran, Dipl. Chem., C. Sc., Institute of Analytical Chemistry, Charles University

B. Vlcek, RNDr., Institute of Photographic Chemistry

J. Simek, Ing., State Assay Office

Bratislava:

J. Gallo, Dipl. Phys., Technological University

SIGNATURES OF POLISH SCIENTISTS

Total Number: 2

Szczecin:

Prof. M. Przaszczewska, C. Sc., Technical University

Torun:

M. Kuik, Dipl. Chem., University of Torun

SIGNATURES OF CHINESE SCIENTISTS

Total Number: 1

Wang Er-kong-, Dipl. Chem., Institute of Applied Chemistry, Sinica Academia

SIGNATURES OF DANISH SCIENTISTS

Total Number: 50

Copenhagen:

University of Copenhagen

J. A. Christiansen, Prof. of Chemistry

Knud O. Møller, Prof. of Pharmacology

R. Spärck, Prof. of Zoology

K. A. Jensen, Prof. of General Pathology

Niels Arley, Prof. of Physics

O. Winge, Prof. of Genetics

Poul Bonnevie, Prof. of Hygiene

F. Buchthal, Prof. of Neurology

E. Busfeldt, Prof. of Surgery

P. Plum, Prof. of Pediatrics

Sigv. Kaae, Prof. of Radiology

K. Arne Jensen, Prof. of Chemistry

H. V. Brønsted, Prof. of Biology

Mogens Westergaard, Prof. of Genetics

Anders Kjaer, Prof. of Organic Chemistry

Erik Warburg, Rector and Professor (M.D.)

Kai Pedersen, Lecturer in Chemistry

Ebbe Brandstrup, Prof. of Gynecology

J. Engelbreth-Holm, Prof. of Pathology

H. C. A. Lassen, Prof. of Infect. Diseases

Gregers Thomsen, Prof. of Radiology

Fl. Martensen-Larsen, Officer of the Medical Administration

Royal Dental College

P. O. Pedersen, Rector and Professor

Johs. Juul Holst, Professor

Arne Björk, Prof. of Anthropology

O. Maaløe, Associate Professor, State Serum Institute

Royal Veterinary and Agricultural Highschool

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S. Tovborg Jensen, Professor

J. M. Lyshede, Professor

E. K. Gabrielsen, Prof. of Plantphysiology

Victor Middelboe, Dr. Sc.

Hans Chr. Bendixen, Prof. of Pathology

Danish Technical Highschool

Anker Engelund, Rector and Professor

Stig Veibel, Professor

Per Søltoft, Professor, dr. tech.

E. Knuth-Winterfeldt, Professor, dr. tech.

H. Højgaard Jensen, Professor of Physics

L. Linderstrøm-Lang, Professor of Chemistry, Carlsberg Laboratory

H. Baggesgaard Rasmussen, Prof. of Chemistry, Danish Pharmaceutical Highschool

J. Ørskov, Director, M.D., State Serum Institute

Paul Bergsøe, Dr. techn. h. c.

Arhus: University of Arhus

Willy Munck, Rector, Prof. of Pathology

P. Holten, Prof. of Internal Medicine

Jens Lindhard, Prof. of Physics

Mogens Ingerslev, Prof. of Gynecology

Jørgen Bichel, Prof. of Pathology

Povl Kristensen, Prof. of Physics

Bent Andersen, Prof. of Pediatrics

C. F. Munch-Petersen, Prof. of Neurology

Gentofte:

Børge Bak, Professor of Physics.

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Xavier Bustos, Chemist

Alfredo Paredes, Biochemist

Marco Elcalante, Biochemist

Arguidamo D. Garenas, Anal. Chem.

Gerrado Armendoris, Biochemist

Ernesto Santana, Biochemist

H. Krochewy, Chem. Ing.

Angel Barragnote, Chemist and Pharmacologist

Walter Soyka, Ing.

Cesar G. Rivadeneira, Ind. and Inorg. Chemist

Cruel Jorge A. Ribadeneira, Geology Professor

Cesar H. Suarez, Chemist and Pharmacologist

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Total: 308

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R. Cerf	M. Berger
H. Benoit	A. Hee
G. Guiot Guillain	A. Sigot
Mme M. Brini	G. Viaud
J. J. Riehl	Sittler
J. P. Schwing	J. H. Vivien
Brenet	Gillet
M. Debeauvais	Rechenmann
R. Bilwes	

Students enrolled in scientific departments

M.P.C.:

Rink	Baehl	Destermes	G. Kern
G. Neff	Kurtz	Assiona	C. Kerr
Mauler	Togni	Housseaux	Thomas
Deynleg	Haumesser	E. Pfirsch	F. Jesser
Hammert	Adloff	Burget	Guillaume
Marvillet	O. Fix	Zitvogel	Brack
Delaruelle	G. Loux	E. Zeller	J. P. Weibel
Obriecht	Jeanselme	F. Jacob	Kaufmann
V. Schmitt	R. Mislin	Moulin	Boismard

O. Scrivener	Kochuspejer	Pousse	Genzling
Parlebas	Cosmo	J. B. Neiss	Silber
M. Martin	Glasser	Goetz	Silberge
Scheuer	M. Peter	Pornin	Gottin
Ritter	E. Ostertag	Brickmann	Peresson
R. Levy	Sengel	F. Dondon	Bertrand
Koeppel	Decker	Lane	C. Iaser
Weber	Frey	Lauer	Hauret
Hirtz			

P.C.B. :

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Barst	Miltenbrand	Mejjati	Konet
Barrette	Vaugelade	Spindler	Liberman
Schaipper	Hans	Breig	J. Mbede
F. Pann	Knittel	Meyer	Schauffler
Criqui	Burg	Muller	Schmitt
Daly	Sablong	C. Mattes	L. Meyer
Goertz	E. Rueff	R. Geffe	Lonsdorfer
M. Koestle	J. M. Meyer	Stebler	Madsen
Gross	G. Apuli	Risser	Peron
Oudot	Kientz	Grosse	Klein
Leize			

S.P.C.N.:

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Rondog	Douilley	Bezian	R. Schouller

Laboube	H. Tournier	Mick	Chamley
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Royer	R. Scherrer	T. Spitzer	A. Chesnet
Gerliner	Berst	Bernhard	Pouchelet
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Eichhory	Dahl	Thuet	J. Gradoz
M. Gerber	Heitz	Chamey	H. Wipff
Braunschweig	Metzger	Grunewald	Roth
A. Bach			

M.G.P.:

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Danet	J. C. Filler	Rocheleux	Gauer
R. Stengel	Totth	Schaffner	Poncelet
R. Meyer	Roth	Petit	L. Zilliox

C.D.T.:

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M. J. Hever	S. Reichert	Godbillon	Rinck
D. Heyl	Dietemann	J. C. Jacob	F. Stoltz
Allain	P. Frak	Weil	

Mecanique Rationelle:

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Muller	Disdier	Fruhauf	Coret
Neiss	Stahl	Witemann	Reinbold
Hestin	Fall	Beck	Thirion
Hibou	Teitgen	Weymann	Bourotte
Finck	Schlaffer		

Physiology:

J. C. Schnetzler	Boesch	Malan	Barthel
Klippel	Bader	Weber	Spach
L. Weil			

Botanique:

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J. P. Frauel	Issenhuth	S. Goepfert	Hortin
F. Grimm	Selly	Gall	Roux
Adam	Rinck	S. Hueber	Berthel
Braun	Bittendiehl	B. Sittler	Kolmayer
Dauvergne	Lambert	Gogne	Papuit

Zoologie:

Kemp	Petiau	Matter	Fucher
F. Haas	Nagel		

Psycho-Physiologie:

Barbier

Biologie Generale:

N. Klein

Geologie:

Christen	Gable	Le Pichon	J. P, Thery
G. Tobias	Feuillard	Besnus	F. Hirsch
Patriat	Dreyfuss	Petit	Dessertine
J. B. Meyer	F. Muller	R. Burgt	Buhler
Aulognier	Vogel	Richard	Hoffet
Ronfard	E. Blondin	Luttenbacher	C. Kaiser

Menager	Mourgues	Klein	Schneider
Zveiger	Dhoste	B. Kern	Jacquet
Scheibling	Walter	Largnier	

Physique Generale:

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Hirch	Certier	Grandaraski	Simon
Fussinger	Pinard	Brickmann	Damm
C. Buffe	Rougeot	Lang	M. Schneegans
G. Schanne	G. Sibilles	Bieller	Brenet
M. Lozach	Martin	A. Halter	Sens
Juillard	F. Wolff	A. Petin	Grim
Hossenlopp	R. Cohenriaz		

Chimie Generale:

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Hubert	Paccard	J. P. Marthe	Brau
Sorgius	Baumgartner	Gauducheau	Guilleoy
Chartier	Ambroise	Feuerstein	Vigneron
Theron	Thebault	J. P. Becker	Jobert
Trautmann	Hugel	Estrade	Engel
Abdelmoula	Fau	Gastineau	Faller
Godard	Krebs	Sommer	

Chimie Applique:

Belon	R. Villaun	Girard	Authier
Schweitz	Geoffroy		

Chimie Biologique:

Menglier Wermuler M. T. Dub

Gougenheim Tabouret Keller

Le Havre: Lycee de Garcons

Prof. R. Mercier, Mathematique Prof. A. Sevalle, Mathematique

Vitry-le-Francois (Marne):

R. Moniste, Prof. Sciences Naturelles N. Grandidici, sciences physiques

T. Bernard, sciences naturelles Charles Levy, sciences mathematiques

Mapelli, mathematiques I. Afeliani, Prof. sciences physiques

Chalons sur Marne:

P. Bizouard, Prof. de Physique Deevagree, Prof. de Mathematique

Gabrielli, Prof. de Physique Drynael, Prof. de Sciences Physique

N. Jaques, Prof. Sciences Physiques W. Toune, Prof. Technique

Vernon (Seine-s.Marne):

Mademoiselle Suzanne Rette, Prof. de Sciences

Seaux (Seine):

L. Marino, Licencie es-sciences

Paris: Faculte de Sciences

Pierre Ducros, Assistant de Mineralogie

SIGNATURES OF GERMAN SCIENTISTS

Total : 11

Hannover:

Dr. H. A. Schweigart, Professor, President, Internationale Gesellschaft für Nahrungs- und Vitalstoff-Forschung

Giessen:

Justus Liebig University, Faculty of natural sciences and philosophy

Prof. Dietrich von Denffer, Dean of the faculty, Botanist

Prof. Lothar Hock, Physical Chemist

Prof. Wilhelm Hanle, Physicist

Prof. Fritz Krohnke, Chemist

Prof. Hermann Boerner, Mathematician

Prof. Kurt Neumann, Physical Chemist

Prof. Eugen Saur, Applied Physics

Prof. Richard Weyl, Geology and Paleontology

Weilburg/Lahn:

Prof. Gerhard Bartsch

Frankfurt/Main:

Dr. Hans-Joachim Bröchner, Chemist

SIGNATURES OF BRITISH SCIENTISTS

Total Number: 415

London:

M. A. Abercrombie, Reader in Embryology

P. G. H. Bowell, Prof. of Geology

A. C. Egerton, F. R. S.

S. B. Gates, Chief Scientific Officer Ministry of Supply

H. Hartridge, Prof. of Physiology

Dr. Willis Jackson, F.R.S.

John McMichael, Prof. of Medicine

Prof. F. Bergel, Lecturer in Pharm. Chem.

M. J. S. Dewar, Prof. of Chem.

C. Daryll Forde, Prof. of Anthropology

P. C. C. Garnham, Prof. of Parasitology

Philip H. Gregory, Prof. of Plant Path.

R. W. K. Honeycombe, Dean of Faculty, Prof. of Metallurgy

Esther Killick, Prof. of Physiology

A. J. Lewis, Prof. of Mental Diseases

C. A. Mace, Prof. of Psychology

M. Maizels, Prof. of Pathology

C. G. Morris, Prof. of exp. Biochem.

W. C. Price, Prof. of exp. Physics

O. W. Richards, Prof. of Zoology

D. S. Russell, Prof. of morbid Anatomy

J. E. Smith, Prof. of Zoology

Sir Edward Bailey, F.R.S.

J. F. Danielli, Prof. of Zoology

R. J. Franklin, Prof. of Zoology

A. G. Gaydon, F.R.S.

L. Hawkes, Prof. of Geology

Dr. F. E. King, F.R.S.

E. Baldwin, Prof. of Biochemistry

E. Boyland, Prof. of Biochem.

H. J. Eysenck, Prof. of Psychology

T. Russell Fraser, Prof. of Endocrinology

F. Goldby, Prof. of Anatomy

W. Holmes, Prof. of Agriculture

A. St. G. Huggett, Prof. of Physiology

P. C. Koller, Prof. of Cytogenetics

A. B. Lucas, Vice Dean, Prof. of Path.

H. A. Magnus, Prof. of Pathology

A. E. W. Miles, Prof. of Dental Surgery

W. C. W. Nixon, Prof. of Obstetrics

D. M. Pryce, Prof. of Pathology

Sir Eric Rideal, F.R.S.

F. A. Sheppard, Prof. of Meteorology

D. W. Smithers, Prof. of Radiotherapy

A.Tustin, Prof. of electr. Eng.

F. R. Winton, Dean of Faculty, Prof. of Pharmacy

John Yudkin, Prof. of Nutrition

V. P. Agrawal, Zoologist

D. R. Arthur, Zoologist

Barnicot, Reader in Phys. Anthropology

J. Booth, Biochemist

I. Braddon, Lab. Tech.

D. E. Briggs, Biochemist

Ben Davs, Reader in Zoology

H. A. Ellis, Lecturerin Bacteriology

G. O. Evans, Princ. Scientific Officer British Museum

J. E. Forrest, Lecturer in Zoology

J. K. Girling, Sociologist

R. M. Goody, Reader in Meteorology

J. S. A. Green

E. M. Greevers, Lecturer in Pathology

J. Groves, Biochemist

H. Harris, M.D., Lecturer in Genetics

R. Marian Hicks, Research Assistant

P. Holton, Biochemist

E. Huchins, Lecturer in Bacteriology

D. L. James, Lect. in Anatomy and Embryology

J. Joseph, Lecturer in Anatomy

Janet E. Kerr, Lecturer in Botany

F. L. Warren, Prof. of Biochem.

J. H. Woodger, Prof. of Biology

G. A. D. Haslewood, Prof. of Biochem.

M. F. Ansell, Chemist

J. H. Ashby, Biochemist

Bishop, Lecturer in Anatomy

C. H. Bowden, Biochemist

S. Brenner, Lecturer in Mathematics

E. H. S. Burhop, Reader in Physics

E. T. Eady, Reader in Physical Climatology

D. F. Evered, Lecturerin Biochemistry

R. Fernan, Lecturer in Zoology

S. M. Fraser, Technician

B. Godsmark, Biochemist

A. H. Gordon, Ph.D.

A. L. Greenbaum, Reader in Biochem.

Stephen Griffiths, B. Sc.

A. K. Grzybowski, Research Assistant

O. S. Heavens, Reader in Physics

F. A. Holton, Lecturer in Physiology

J. H. Humphrey, M.D.

J. Ingram, Lecturer, Physical Sciences

D. C. O. James, Pathologist

L. Kecy, Research Assistant

J. L. H. Laity, Lecturer in Pharmacology

D. R. Laurence, Lect. in Pharmacology

E. A. Lucken, Lecturer in Chemistry

L. E. McGee, Lecturer in Pathology

Dr. N. Malleson, M.D.

P. H. Martin, B.Sc.

B. J. Mason, University Teacher

P. Meadow, Research Assistant

J. L. Mongar, Lect. in Pharmacology

M. W. Neil, Lect. in Biochemistry

J. P. Nicholson, Physicist

R. G. F. Parker, Medical Pathologist

R. G. Paxton, Lecturer in Botany

R. R. Porter

Dr. J. Reid, M.D.

P. M. Saunders, University Teacher

P. Sims, Research Chemist

K. S. Smith, Research Zoologist

E. J. Stokes, Lect. in Bacteriology

P. G. I. Stoven, Medical Pathologist

G, M. Waind, Lecturer in Chemistry

K. Weinbren, Medical Pathologist

S. R. J. Woddell, Lecturer in Botany

J. G. Lewis, Research Zoologist

F. H. Ludlam, Lecturer in Meteorology

D. M. Maitlis, Lecturer in Chemistry

A. Marshall, Clinical Pathologist

J. Morton, Lecturer in Zoology

A. P. Mathias, Lect. in Biochemistry

J. Middleton, Lect. in Anthropology

D. Monock, Pathologist

G. E. Newell, Lect. in Zoology

J. H. Ottoway, Lect. in Biochemistry

C. W. Parr, Lect. in Biochemistry

C. F. Peakin, Research Zoologist

B. R. Rabin, Lect. in Biochemistry

L. J. Rubinstein, Medical Pathologist

H. O. Schild, M. D., Reader in Pharmac.

D. M. A. Smith, Research Chemist

Dr. H. Steinberg, Lect. in Pharmacology

B. Stone, Research Assistant

G. A. Thomas, Lect. in Anatomy

P. J. Wanstall, Lect. in Botany

P. L. Williams, Lect. in Anatomy

Joan F. Zilea

Cambridge:

K. Bailey, Asst. Director of Research in Biochemistry

E. J. H. Corner, Lecturer in Botany

A. S. Besicovitch, Prof. of Mathematics

Sir Charles Darwin, F.R.S.

A. Page, Physicist

Sir Joseph Hutchinson, Prof. of Agriculture

Sir Ben Lockspeiser, F.R.S.

D. Shoenberg, Reader in Physics

W. I. B. Beveridge, Prof. of Animal Path.

S. D. Elliot, Animal Pathology

W. A. Wooster, Lecturer in Mineralogy

Sir James Gray, Prof. of Geology

F. Kidd, Director of Food investigation

George Salt, Lecturer in Zoology

Roy Markham, Biochemist

H. P. Chu, Animal Pathology

P. Whittlestone, Pathologist

Cardiff: University College of Wales

S. E. Arney, Lecturer in Plant Physiol.

A. G. Lyon, Lecturer in Botany

C. C. Tallack, Geneticist

R. Harvey, Lecturer in Mycology

M. Percival, Lecturer in Botany

F. F. Williams, Bacteriologist

Aberystwyth: University College of Wales

L. Newton, Prof. of Botany

F. G. Rees, Lecturer in Zoology

E. E. Watkin, Lecturer in Zoology

Ifor L. Owen, Zoologist

A. Stephenson, Zoologist

Harford Williams, Zoologist

Bangor: University of Wales

S. Peat, Prof. of Chemistry

D. Thoday, Prof. (Emer.) of Botany

J. L. B. Cooper, Prof. of Mathematics

H. O'Neill, Prof. of Metallurgy, Head of the Department

W. R. Angus, Senior Lect., Chemistry

P. F. Lloyd, Lecturer in Chemistry

T. A. Stephenson, Prof. of Zoology

G. F. Asprey, Prof. of Botany

J. Gough, Prof. of Pathology

P. W. Richards, Prof. of Botany

F. Holmes, Lecturer in Chemistry

J. E. McKail, Lecturer in Chemistry

L. M. Turton, Lecturer in Chemistry

J. R. Turvey, Lecturer in Chemistry

Oxford:

Sir Wilfred Le Gros Clark, Prof. of Anatomy

H. J. Kuhn, Reader in Physics

K. Mendelssohn, Reader in Physics

R. G. MacFarlane, Reader in Haematology

T. Pomfret Kilner, Em. Prof. of Plastic Surgery

R. C. Oldfield, Prof. of Psychiatry

E. Bidwell, Biochemist

R. Briggs, Pathologist

M. E. Varley, Zoologist

Nottingham:

F. L. Milthorpe, Prof. of Agric. Botany

J. H. Adkins, Lect. in Mathematics

H. Booth, Lecturer in Chemistry

S. C. Wallwork, Lecturer in Chemistry

Leicester:

T. G. Tutin, Prof. of Botany

Sheffield:

R. S. Illingworth, Prof. of Child Health

D. L. Linton, Prof. of Geography

A. G. Quarrell, Prof. of Metallurgy

W. A. Tuplin, Prof. of Appl. Mechanics

G. M. Wilson, Prof. of Pharmacology

P. Freeman, Lect. in Appl. Mechanics

A. J. Hunt, Lecturer in Geography

L. Mayer, Lect. in Appl. Mechanics

R. A. C. Savigear, Lect. in Geography

J. L. H. Sibbons, Lect. in Geography

Cheltenham:

D. E. Speed, Pathologist

Leeds:

H. Henriques, Anthropologist

R. D. Mackey, Lect. in Civil Eng.

C. Slaughter, Anthropologist

E. Lightfoot, Lect. in Civil Eng.

J. Rex, Lect. in Social Studies

Dr. R. Sutherland, Senior Lecturer, Public Health

Newcastle:

G. Barr, Senior Lect. in Obstetrics

Dr. P. J. Burnett, M.D.

N. du Plessis, Lecturer in Mathematics

D. A. Evans, Lecturer in Mathematics

K. Mitchell, Senior Lect. in Mathematics

J. D. Weston, Lecturer in Mathematics

F. F. Bonsall, Reader in anal. Math.

J. P. Dunnett, M.D., Registrar

Dr. P. M. Elderkin, M.D.

Dr. F. MacCullum, M.D.

G. D. Wasserman, Lecturer in Mathematics

E. W. Wilkes, Lecturer in Mathematics

Durham:

J. B. Duguid, Prof. of Pathology

S. D. M. Court, Prof. of Child Health

H. C. Pawson, Prof. Em. of Agriculture

G. Eason, Lecturer in Mathematics

P. Smith

W. Fisher Cassie, Prof. of Civil Eng.

H. Evers, Prof. of Obstetrics

G. D. Rochester, Prof. of Physics

J. K. Russell, Senior Lect. in Obstetrics

M. Chadwick, Lecturer in Mathematics

Liverpool:

A. W. Downie, Prof. of Bacteriology

P. W. Ball, Botanist

D. Bowsher, Lecturer in Anatomy

P. S. Dixon, Lecturer in Botany

T. S. Simey, Prof. of Social Sciences

D. Boulter, Lecturer in Botany

M. Brookes, Lecturer in Anatomy

T. H. Davey, Prof. of Tropical Hygiene

Harpenden:

F. J.Richards, Head of the Imperial College Laboratory

Manchester:

H. J. Fleure, Em. Prof. of Geography

H. S. Lipson, Prof. of Applied Physics

M. S. Bartlett, Prof. of Math. Statistics

C. Fraser Brockington, Prof. of Medicine

V. Lambert, Prof. of Otolaryngology

J. A. L. Matheson, Prof. of Engineering

R. W. Revans, Prof. of Ind. Administration

L. Rosenfeld, Prof. of Theor. Physics

H. J. Braddick, Lecturer in Physics

J. E. Gibson, Senior Lect. in Engineering

M. I. Large, Lecturer in Physics

F. MacNeil, Lecturer in Psychology

R. Peach, Biophysicist

J. A. Rose, Biochemist

E. L. Seyd, Lecturer in Zoology

G. Stafford, Lecturer in Education

D. B. Walker, Psychologist

G. W. Williams, Pathologist

S. Harland, Prof. of Botany

W. Baker, Prof. of Mech. Engineering

J. Cohen, Prof. of Psychology

J. H. Kellgren, Prof. of Rheumatology

R. E. Lane, Prof. of Occup. Health

G. A. G. Mitchell, Dean of the Faculty of Medicine

Dr. J. Ball, M.D., Senior Lecturer

B. Bicks, Senior Lect. in Physics

D. Broadbent, Lecturer in Physics

D. C. Henry, Lecturer in Physics

T. Lewis, Mathematician

J. E. Moyal, Mathematician

M. B. Priestley, Mathematician

P. W. Rowe, Lecturer in Engineering

H. J. B. Slack, Medical Research

M. C. K. Tweedie, Mathematician

W. Watson, Lecturer in Anthropology

J. A. Clopman, Physicist

Exeter:

L. A. Harvey, Prof. of Zoology

A. Stuart, Prof. of Geology

Bristol:

H. Heller, Prof. of Pharmacology

R. Bassindale, Lecturer in Zoology

C. B. Perry, Prof. of Medicine

M. Ginsburg, Lecturer in Pharmacology

Liverpool:

G. Hurshaw, Botanist

J. P. Sariole, Botanist

M. Hurst, Lecturer in Botany

S. Walker, Lecturer in Botany

Dublin:

E. J. Conway, Prof. of Biochemistry

Belfast:

V. C. R. Ford, Lecturer in Geography

E. M. Jope, Archaeologist

M. McArdle, Biologist

V. B. Proudfoot, Geographer

D. M. S. Dane, Lecturer in Microbiology

A. Greenfield, Prof. of Physiology

John W. Orr., Director of Cancer Research

R. H. Buchanan, Lecturer in Geography

E. M. Jones, Lecturer in Geography

Dr. M. Likar, M.D.

H. G. S. Murray, Microbiologist

L. Symons, Lecturer in Geography

E. Estyn Evans, Prof. of Geography

G. W. A. Dick, Prof. of Microbiology

E. Bartley, Lect. in Microbiology

A. E. P. Collins, Lect. in Archaeology

Reading:

S. J. Folley, Head of the Physiology Department

R. W. Ditchburn, Prof. of Physics

A. M. Frood, Lecturer in Geography

Stella Mayne, Physicist

M. Parry, Lecturer in Geography

P. D. Wood, Lecturer in Geography

H. D. J. Kay, Director, Nat. Inst. for Dairying, Prof. of Biochemistry

C. Tyler, Prof. of Agric. Chemistry

A. B. Lidiard, Physicist

E. W. Mitchell, Physicist

D. H. Tomlin, Physicist

K. Robinson, Lecturer in Physics

Birkenhead:

Dr. Jean Trewhella, Physician

Birmingham:

L. Hogben, Prof. of Medical Statistics
W. Stiles, Em. Prof. of Botany
H. C. McLaren, Prof. of Obstetrics
D. A. Bell, Reader in Electromagnetics
J. G. Henderson, Lect. in Electr. Eng.
W. A. Linning, Lect. in Chem. Eng.
J. W. Reilly, Lect. in Chem. Eng.
V. G. Welsby, Lect. in Electr. Eng.
G. T. Wright, Lect. in Electr. Eng.
E. J. Maskell, Prof. of Botany
A. C. Frazer, Prof. of Med. Biochem.
J. T. Allanson, Lect. in Electr. Eng.
G. W. R. Griffiths, Lect. in Electr. Eng.
J. M. Layton, Lect. in Electr. Eng.
J. Patterson, Lect. in Chem. Eng.
J. Waterhouse, Reader in Mathematics
R. F. Wrighton, Lect. in Med. Statistics
J. C. Cluley, Lect. in Electr. Eng.

Truro:

Dr. Ian Anderson, M.D.

Southampton:

W. T. Williams, Prof. of Botany
G. Roy Lane, Lecturer in Botany
E. E. Zepler, Prof. of Electronics

Aberdeen:

D. J. Finney, Reader in Statistics
Wynne-Edwards, Prof. of Zoology
W. Brass, Statistician
Prince Forman, Lecturer in Zoology
P. A. Orkin, Lecturer in Zoology
A. A. Rutherford, Statistician
J. R. Short, Lecturer in Zoology
A. Watson, Lecturer in Zoology
W. O. Kermack, Prof. of Biol. Chemistry
C. M. M. Begg, Lecturer in Genetics
P. R. Fisk, Statistician
B. Nisbet, Lecturer in Zoology
C. Pringle, Lecturer in Genetics
M. R. Sampford, Statistician
S. Symmons, Lecturer in Zoology
D. M. G. Wishart, Lecturer in Statistics

Cardiff:

K. Benson-Evans, Lecturer in Botany

Edinburgh:

J. H. Gaddum, Prof. of Pharmacology

J. Read, Prof. of Chemistry

C. H. Waddington, Prof. of Animal Genetics

M. Swann, Prof. of Natural History

R. W. B. Ellis, Prof. of Child Life and Health

G. F. Friend, Lecturer in Cytology

B. M. Jones, Lect. in Natural History

J. M. Mitchison, Lecturer in Zoology

D. L. Reynolds, Geologist

A. Holmes, Em. Prof. of Geology

M. L. Vogt, Reader in Pharmacology

H. G. Callan, Prof. of Zoology

N. M. Dott, Prof. of Neurol. Surgery

K. M. G. Adam, Lecturer, Biologist

L. J. Hale, Lecturer in Zoology

R. A. Kille, Lecturer in Zoology

C. Rayski, Lecturer in Zoology

Glasgow:

G.Pontecorvo, Prof. of Genetics

J. P. Todd, Prof. of Pharmacology

M. D. Allen, Zoologist

J. J. Doherty, Lecturer in Pharmacy

F. Fish, Lecturer in Pharmacy

J. M. Hutchinson, Research Student

A. H. M. McCallum, Lecturer in Pharmacy

P. F. Nelson, Lecturer in Pharmacy

E. M. Packman, Ass. Lecturer in Genetics

C. F. Roberts, Research Student

J. E. M. Walker, Lecturer in Pharmacy

C. M. Yonge, Prof. of Zoology

J. Walton, Prof. of Botany

J. A. Blain, Lecturer in Pharmacy

J. F. Dunachie, Lecturer in Pharmacy

E. Forbes, Technician

L. Lilly, Ass. Lecturer in Genetics

D. G. MacLeod, Lecturer in Science

C. Martin-Smith, Research Student

R. A. Pritchard, Lecturer in Genetics

J. A. Roper, Lecturer in Genetics

Alaska:

S. Chapman, Geophysicist

Switzerland: Zurich

W. H. Heitler, Prof. of Physics

London:

J. D. Carthy, Lecturer in Zoology

G. Chapman, Lecturer in Zoology

M. Crawford, Pathologist

T. F. Slater, Research Assistant

Birmingham:

D. G. Tucker, Prof. of Electr. Eng.

H. Asher, Lecturer in Physiology

W. Carnegie, Lect. in Mech. Eng.

K. W. Cross, Lecturer in Mathematics

Liverpool:

E. M. Burrows, Lecturer in Botany

D. A. Coult, Lecturer in Botany

J. Kenyon, M.D.

Aberdeen:

C. E. Cox, Statistician

R. N. Curnow, Statistician

G. J. Davies, Statistician

Edinburgh:

H. Tuft, Lecturer in Zoology

T. Warwick, Lecturer in Zoology

Durham:

W. D. Collins, Lecturer in Mathematics

SIGNATURES OF ITALIAN SCIENTISTS

Total Number: 5

Firenze: Universita di Firenze

Mario Aiazzi-Mancini, Professor of Pharmacology

Alberto Giotti, Professor of Pharmacology

Guiseppe Colosi, Professor pf Zoology

Eugenia Garin, Professor of historical Philosophy

Roberto Longhi, Professor of Art History

SIGNATURES OF IRISH PHYSICISTS

Total Number: 9

Dublin:

C. O'Ceallaigh

Michael J. O'Connell

Denis Keefe

Peter K. Carroll

Prof. E. T. S. Walton

P. K. W. Johnston

Thomas E. Nevin

Anne Kernan

Patrick G. Daly

SIGNATURES OF ISRAELI SCIENTISTS

Total Number: 3

Jerusalem: Hebrew University - Hadassah Medical School

Prof. Ernst Wertheimer

Professor Georg Haas

Dr. Heinz Steinitz, lecturer

SIGNATURES OF JAPANESE SCIENTISTS

Total Number: 20

Tokyo:

K. Kawabata, Physicist
C. Ishi, "
T. Suda, "
H. Kobayashi, "
J. Akutsu, "
A. Hashizume, "
M. Okano, "
K. Kamata, "
S. Kawasaki, "
S. Kudo, "
T. Hatanaka, Physicist
M. Kitamura, "
G. Ishikawa, "
F. Yamasaki, "
I. Otsuka, "
T. Hamada, "
Y. Miyazaki, "
H. Takeuchi, "
M. Wada, "
I. Kondo, "

SIGNATURES OF NEW ZEALAND SCIENTISTS

Total Number: 98

Auckland: The University of Auckland

V. J. Chapman, Professor

K. S. Kreichheimer, Associate Professor

M. G. Rattenbury, Lecturer

D. G. Mawson, Lecturer

Nelson: Cawthron Institute

David Miller, Scientific Research

Robert Monk, Scientific Research

Joyce Watson, Scientific Research

Theodore Rigg, retd.

Christchurch: University of Canterbury

Bruce R. Penfold, Chemist

J. Vaughan, Chemist

K. W. Roth, Physicist

W. S. Metcalf, Chemist

A. Fisher, Chemist

M. G. Chustburn, Chemist

J. B. Gregory, Physicist

F. W. Dry, retd Head, Department of Animal Genetics, Massey Agricultural College

I. A. E. Atkinson, Weymouth

Wellington: Dominion Laboratory

L. M. L. Dunn, Chemist

John A. Ritchie, Chemist

John C. Ephal, Chemist

P. S. Groom, Chemist

M. Sibley, Technician

G. A. Challis, Technician

W. G. Hughson, Fuel Chemist

E. G. Bridley, Technician

D. J. Nyatt, Chemist

T. A. Vincent, Technician

H. Williams, Chemist

N. W. VenJones, Chem. Eng.

Ann Kennedy, Chem. Eng.

D. Michelson, Mineral Eng.

R. Dall, Technician

B. Cleveley, Chemist

A. P. Rothbaum, Chemist

R. A. Kennerley, Chemist

C. F. Denmead, Chemist

R. T. Douglas, Chem. Eng.

R. L. Ledger, Chem. Eng.

W. T. Shannon, Technician

W. J. Todd, Chemist

G. J. Schafer, Physicist

B. E. Jackson, Chemist

Meat Research Institute

R. H. Locker, Biochemist

B. B. Marsh, Biochemist

Applied Mathematics Laboratory

H. I. Roberts, Mathematician

W. B. Taylor, Mathematician

J. E. Drummond, Physicist

C. A. H. Barr, Biometrician, National Health Institute

Department of Scientific and Industrial Research

P. J. Clark, Chemist

H. M. Stone, Chemist

H. E. Harvey, Chemist

S. H. Wilson, Chemist

C. C. Watson, Chemist

P. M. Heine, Chemist

D. S. I. R. Soil Bureau

C. J. Metson, Soil Chemist

K. S. Birrell, Soil Physicist

P. M. Ralph, Lecturer in Zoology (resident in London)

L. D. Swindale, Chemist
B. B. Cleridge, Chemist
A. C. Northey, Physicist
N. Wells, Chemist

Rukuhia Soil Research Station

J. C. B. White, Agric. Chemist
J. H. Watkinson, Agric. Chemist
E. B. Davies, Senior Principal, Scientific Officer
D. G. Waters, Agric. Chemist
J. McNaught, Agric. Chemist
D. E. Hogg, Scientific Officer
P. Jackson, Scientific Officer
W. F. Holt, Scientific Officer
D. E. Hogg, Scientific Officer
R. N. Woodward, Scientific Officer,
K. F. Hoy, Agric. Chemist
G. B. Nelan, Principal Scientific Officer
W. Elliott, Agric. Scientist
R. E. R. Grimmott, Superintendent
J. C. Gerlach, Trop. Agronomist
Y. Karlowsky, Scientific Officer
H. E. Rose, Microbiologist
H. G. Hepwell, Agric. Scientist

Waikato Hospital

C. G. Watson, Pediatrician
W. A. Russell, Pathologist
J. A. Hellyer, Bacteriologist
C. K. Clopson, Bacteriologist

Ruakura Animal Research Station

W. S. Whistertour, Senior Principal Research Officer
D. S. M. Phillip, Physicist,
N. T. Clare, Chief Biochemist
V. J. Williams, Agric. Scientist
K. R. Christin, Biochemist
J. G. K. Lucas, Agric. Scientist
L. R. Wallace, Agric. Scientist
D. Y. Edgar, Vet. Surgeon
D. C. Dodd, Vet. Surgeon
W. Crawley, Bacteriologist
H. J. MacDiarmid, Bacteriologist
E. G. Bassett, Agric. Scientist
E. P. White, Biochemist
U. R. Coup, Biochemist
R. J. Lancaster, Biochemist

SIGNATURES OF VENEZUELAN SCIENTISTS

Total: 19

Caracas:

Marcel Roche , Physician

Gabriel Chuchani, Chemist

Raymond Brown, Chemist

Karl Gaede, Biochemist

Marcel Granier-Doyeux, Pharmacologist

Sven B. Svendsen, P.E.

Martin Vegas, Physician

Jose Vicente Scorza, Biologist

Felix Pifano, Physician

Jose M. Cruxent, Archeologist

Manuel Bemporad, Physicist

Francisco De Venanzi, Physician

Pablo Liendo Coll, Physician

Luis M. Carbonell, Physician

Anatole Zagustin, Mathematician

Angel Palacio Gros, Mathematician

Diego A. Tovar

Werner Jaffe, Chemist

Jose Antonio Jove, Engineer

SIGNATURES OF SPANISH SCIENTISTS

Total Number: 5

Valencia: University of Valencia

J. I. Fernandez-Alonso, Prof. of Chemistry

J. Garcia-Blanco, Prof. of Physiology

R. Bartual, Prof. of Oto-rhino-laryngoology

J. Beltian Martinez, Prof. of Chemistry

Enrique Costa, Prof. of Chemical Engineering

SIGNATURES OF SOUTH AFRICAN SCIENTISTS

Total Number: 1

A. J. Alexander, Lecturer in Zoology (resident in London).

SIGNATURES OF UNITED STATES SCIENTISTS

Total Number: 169

California:

Stanford University, Stanford:

Avram Goldstein
Lewis Aronson
John D. Gabourel
Carlton E. Schwerdt
Harry K. Johnson
F. Thomas Algerd
Sidney Raffel
R. J. Roantree
Windsor Cutting
Robert H. Dreisbach
Dora B. Goldstein
William Nye
Emmett J. Johnson
R. S. Turner
Arthur Furst
C. E. Clifton
D. L. Bassett
E. Richard Weinerman

Berkeley and surroundings:

John C. Weaver
S. S. Adelman
Paul C. Hutchison
Lawrence T. Dempster
Lester Breslow
Everett R. Dempster
Gene B. Sagan

Los Angeles and surroundings:

Willard Susman
Charles F. Hamilton
Alfred G. Knudson, Jr.
Joseph T. Holden
Claude T. Baxter
William D. Kaplan
Keith H. Kelly
Ann Roller
David S. Dennison
Max Harry Weil
Sherwood P. Miller
Marcel A. Baluda
Howard R. Bierman

Colorado: Colorado Springs

Wilbur H. Wright
Milton K. Snyder
Richard C. Budlear
Paul F. Boucher
Joseph S. Leech
Fred A. Southmann
W. G. Galetey
Eldon Hitchcock
Wm. A. Fischer
Mary Alice Hamilton
C. William Menand
Robert Z. Brown
Paul B. Bernard
Donald P. Greene
Margaret Hansman
Lewis N. Peno

Connecticut: West Hartfort

H. M. Dadourian

Massachusetts: Cambridge

Paul Doty
Carl W. Nelson

Maryland: Baltimore

Otis T. Carr
S. W. Arenson

New York: New York City

Robert Cushman Murphy
Maurice M. Rapport
Jaques Padawer
Betty L. Rubin
Adele B. Kostellow
Nancy M. Buckley
Henry D. Hoberman
Melvin Blecher
Marvin Lukin
Sam Seifter
Jonathan Wettenberg
Alex B. Novikoff

Edward A. Essner

J. M. Arias

Margaret M. Arase

Janet Romm

L. Jay Walker

Elsie McPeale

Bertram A. Lowry

Grace Vanderhoff

Evelyn Petruschka Lapin

Samuel Gelfan

Alan F. Guttmachen

Edna H. Sobel

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Edward Franklin

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Jules Hirsch

Irving L. Schmitt

Reginald M. Auchbild

Frederick Wheelock

Earl H. Furmier

Rebecca C. Lancefield

Bertha Masek

Lillian Jederkin

Jacob Levine

Helen Wendler Deane

Dorothy Dooley

Robert M. Rosenbaum

Helena Morell

Marjorie King

Jonas N. Muller

Paul Klemperer

William A. Higginbotham

Lewis M. Frood

Herman W. Spater

Keith M. Schmid

Virginia E. Powell

Herbert G. Winston

Elaine Allen

Maurice S. Fox

Gertrud Gottschall

Halsted Holman

Malcolm L. Peterson

Z. A. Cohn

D. Dzieivatkowska

Mady W. Curtey

Arthur Karlin

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John K. Rose

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Harry P. Coats

Oregon: Portland

Carl E. Hopkins

Roy L. Swank

Thomas B. Fitzpatrick

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John E. Cevelti

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Wes H. Dempsey
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Thomas L. Rodgers

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Franklin M. Harold
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